SENIOR PHASE

Subject Choice Booklet

2024 - 2025

Annan Academy

Index

Contact: Mrs. L. Clark (Depute Headteacher)
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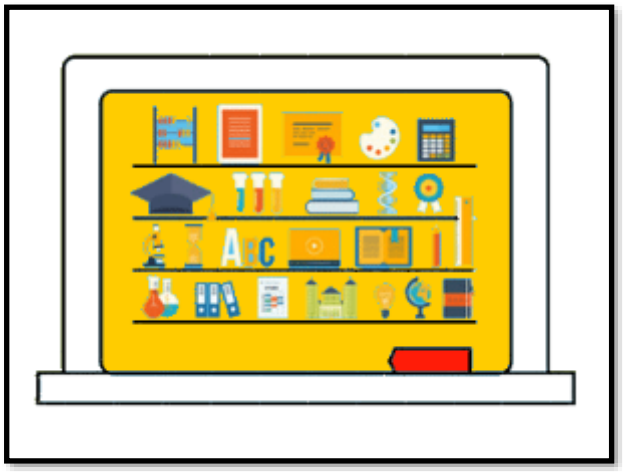
Introduction



Throughout their time at Annan Academy, our young people are provided with regular opportunities for personalisation and choice. Moving towards the Senior Phase in S4, choice becomes increasingly important as young people begin to think more seriously about their pathways beyond their time at school.

At the end of S2, our young people make choices for S3 which allow them to begin specialising in certain areas of the curriculum, whilst still maintaining a Broad General Education. Following S3, they will move into the Senior Phase in S4. Pupils moving into S4 will be undertaking National Qualifications for the first time. For some, the conclusion of S4 may mark the end of their time at Annan Academy as they choose this point to move onto the world of work or Further Education.

If pupils choose to stay on for S5/6 they do so with increased expectation and responsibility within the school. Those choosing to return for S5 and S6 face a range of choices; whether it be taking on the challenge of Higher or Advanced Higher study or widening their portfolio of qualifications with other accredited courses. We hope you find this booklet a useful source of information to assist with the option process.

Availability of Courses

Students and parents are asked to note that courses in the Senior School will only run where the number of students opting for a particular course constitute a viable class and staffing allows.

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Course Levels

Courses in the Senior Phase are National courses. These range from National 1 to National 5 and on to Higher and Advanced Higher. In addition we also offer Skills for Work (SfW) courses as well as National Progression Awards (NPAs). Theses course equate to the Scottish Credit Qualifications Framework (SCQF) levels and the previous Standard Grade and National Qualifications Courses.

Pupils entering S5 also have access to a Foundation Apprenticeship (FA) through our partnerships with D&G College & D&G Council.

Pupils entering S6 also have access to some Higher National Certificate (HNC) at Dumfries and Galloway College.

Course Levels	
New Qualification	**Scottish Credit Qualification Framework Levels**
National 1 and Awards	Level 1
National 2 and Awards	Level 2
National 3, Awards and Skills for Work	Level 3
National 4, Awards, Skills for Work National 4 and National Progression Awards	Level 4
National 5, Awards, Skills for Work National 5 and National Progression Awards	Level 5
Higher, Awards, Skills for Work Higher, National Progression Awards and Foundation Apprenticeships	Level 6
Advanced Higher, Awards and Scottish Baccalaureate	Level 7

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Curriculum Pathways

There are many different routes that pupils can progress through their curriculum at Annan Academy. To help you understand the different routes we have created subject pathways for all subjects. All our subject pathways can be found on our school website (click on the school crest for direct access to our pathways).

Below is a part example of a pathway in Technical Education.

S6	Level 5 Jewellery Making		Higher Graphic Communication
S5	National 5 Practical Woodworking	Level 5 Jewellery Making	National 5 Graphic Communication
S4	National 4 Practical Woodworking	National 5 Practical Woodworking	National 4 Graphic Communication
S3	Level 3 Practical Woodworking	Level 3/4 Practical Woodworking	Level 3 Graphic Communication
S2	Level 2 Design and Technology	Level 2/3 Design and Technology	Level 2 Design and Technology
S1	Level 1/2 Design and Technology	Level 2 Design and Technology	Level 1/2 Design and Technology
	PATHWAY 1	**PATHWAY 2**	**PATHWAY 3**

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Beyond Senior Phase

Further and Higher Education

A number of pupils will be considering Further Education or Higher Education as their next step after completing their secondary Education. Pupils considering these options should research the courses available within the subject areas in which they are interested. They should look at the qualifications required to gain entry to the courses they are interested in, linking these to recommended levels for study made by their teachers, to decide whether it is a realistic option. If it is realistic then they should use the information to plan the subjects and levels of study required for each year, from S4 onward through the Senior Phase to the point which is most appropriate for them to leave school and gain entry to their chosen College or University course. If it is not realistic, they should seek support from their Tutor, PT Pupil Support and the Careers Adviser.

Information detailing the courses available and qualifications necessary can be found in each college/university prospectus. These are available on line and in the School Library.

Employment

Some pupils may consider leaving school and seeking employment rather than further education. Pupils considering these options should look at possible qualifications to ensure they are eligible candidates for job vacancies. As part of PSE pupils will have access to the My World of Work website where they can research job vacancies and required qualifications. Pupils can also be building a skills portfolio to help them write a CV and cover letter. We would encourage hey should be accessing this outside of PSE time and parents are encouraged to sign up. Pupils can also speak with advisers from Skills Development Scotland (SDS), advisers are based in G8. We also advertise apprenticeships on the Annan Academy Facebook page. Further information on apprenticeship opportunities can be found at apprenticeships.scot

My World of Work

APPRENTICESHIPS.SCOT
From Skills Development Scotland

Volunteering

Pupils may also opt to take part in Voluntary work or engage with the Princes Trust program.

Prince's Trust | YOUTH CAN DO IT

Click the logos for direct access to each website.

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College Courses

There are also a number of courses delivered by our partners at D&G College, Scotland's Rural College (SRUC), D&G Council and @Southwest Connect.

The link at the bottom of the page contains all the information regarding D&G College courses along with YASS course.

Dumfries and Galloway College	
Hospitality	NPA Professional Cookery Hospitality Barista
Business and Computing	NPA Cyber Security NPA Introduction to E-Sports
Construction, Built Environment and Engineering	SfW Automotive Skills Construction Crafts Energy and Renewable Practical Skills
Creative Industries	NPA Digital Media Animation (Online) NPA Photography
Early Learning and Childcare	Early Education and Childcare
Health and Social Care	Criminology
Make-Up and Beauty	NPA Make-Up, Hair and Beauty Skills
Sport and Fitness	SfW Sport and Recreation
Scotland's Rural College	
The Principles of Animal Care Investigation of Modern Agriculture Veterinary Terminology	

Click the logos for direct access to D&G College and Open University websites for more information on each of the courses available including information on Young Applicants in Schools Scheme (YASS).

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College Courses

There are also various additional Higher and Advanced Higher courses, Foundation Apprenticeships and HNC courses delivered by our partners solely for S5/6 students.

Pupils interested in Higher or Advanced Higher courses offered through @Southwest Connect should see Mrs. Clark. Please note that courses offered through @Southwest Connect are only available to S6 pupils.

Dumfries and Galloway College	
Business and Computing	Legal Studies UWS Business Foundation Academy (Online) UWS Computing Foundation Academy (Online)
Construction, Built Environment and Engineering	FA Engineering
Early Learning and Childcare	FA Social Services and Childcare
Health and Social Care	UWS Healthcare Foundation Academy (Online)
Dumfries and Galloway Council	
FA Creative and Digital Media FA Food and Drink Technologies	
@South West Connect	
Higher	Politics
Advanced Higher	English Graphic Communication History Mathematics

Click the logo for direct access to @South West Connect Prospectus and more information on courses available.

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Pupils Entering S4

You have now reached a very important stage in your School career, where you will choose the subjects that you will study towards formal certification. Rather than being a plan for a single year, your subjects for S4, should be part of a plan you are making for your pathway through the whole of your Senior Phase to your intended post-school destination.

You will study six subjects. The increased time, made available by reducing the curriculum from eight subjects plus the electives, will allow for greater depth of study in the six chosen subjects.

In S4 all pupils must study:

- **English (4 periods per week)**
- **Mathematics (4 periods per week)**
- **Physical Education (Core)**

All pupils should choose FOUR subjects (one from each of Groups 2,3,4 and 5 in the subject Choice Form). These will be studied for 5 periods per week.

In order to ensure a balanced curriculum, we would recommend that each pupil's curriculum plan for S4 should cover as many of the curricular areas covered below as possible:

Curricular Areas	
Language and Literacy	English (compulsory) and Modern Foreign Languages
Mathematics and Numeracy	Mathematics (compulsory)
Science	Biology, Chemistry and Physics
Social Studies	Geography, History and Modern Studies
Technologies	Graphic Communication, Jewellery Making, Practical Cookery, Practical Craft Skills and Practical Woodworking
Computing and IT	Administration & IT, Computing Science, Computer Games Development, Business Skills and Travel & Tourism
Expressive Arts	Art and Design, Drama, Drawing Skills, Music, Music Technology and Painting Skills
Health and Wellbeing (HWB)	Physical Education, Football and Fitness and Horse Care

Entry Requirements

Pupils leaving the Broad General Education should be aware of the levels they have achieved in each curricular area at the end of S3. This will be communicated in their latest Progress & Achievement report. In general, pupils who choose to continue with subjects

Level achieved at the End of BGE (End of S3)	Level of Study on entry to S4
Level 4 or beyond	National 5 or Level 5
Level 3	National 4 or Level 4
Level 2	National 3
Level 1	National 2

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S4 Timeline

Your child's Class teachers, tutor and Pupil Support staff are available to help your child choose courses suited to their needs and abilities.

Please see the information below which details the support and timeline for completion of the S4 options process.

Date	Event	Detail
During the academic session	Personal and Social Education Program - Options SDS Input	1. Making Decisions 2. Stereotypes 3. Career Fact or Fiction Delivery by Skills Development Scotland (My World of Work), this includes one to one appointments with an advisor
30/01/24	S3 Reports Issued Senior Curriculum Information Issued PTPS information to Tutor Groups	Information regarding performance in current S3 subjects and recommendations for S4 Information regarding subject choices for S4 available on the school website - click here Principal Teacher Pupil Support provides information for Tutor Teachers to explain Subject Choice forms and answer questions
01/02/24	Senior Phase Information Evening (6-7pm)	Depute Head Teacher presentation taking parents/ pupils through the process of selecting subjects to study in S4
07/02/24	S3 Parents' Evening	Opportunity to meet with subject teachers, particularly with those subject's pupils are considering for S4
15/02/24 to 19/02/24	Meetings with Pupil Support Teacher and/or PT Additional Support	One to one appointment to discuss/finalise subject choices
20/02/24	S3 into S4 Options Return Deadline	Completed Subject Choice Forms must be returned by your child to their Tutor Teacher at Tutor Time for checking by PTPS

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Pupils Entering S5/6

Students in S4 and S5 are now approaching another stage in their school career and important decisions on subject choice for entry to S5 and S6 need to be made. Pupils should consider the pathway they began with subject choices in S4 and re-evaluate their post school destination if necessary. In S5/6 pupils are now part of the senior school and have opportunities to develop organisational and leadership skills they will use when they leave school. For example becoming Prefects, Mentors in Violence Prevention ambassadors, peer support mentors and, in S6, part of the school captaincy team.

In S5 and S6 all pupils must study:

- Physical Education (Core)

Current S4 pupils should choose FIVE subjects and ONE reserve subject. These will be studied for 5 periods per week.

Current S5 students should choose a minimum of FOUR subjects and ONE reserve subject. These will be studied for 5 periods per week.

Literacy/Numeracy

Pupils who have not previously achieved the National 5 Literacy or National 5 Numeracy Unit and who are not choosing to study National 4 or 5 English/Mathematics as a subject course, will study this Unit as part of their core provision.

Entry Requirements

To be successful in Higher/Advanced Higher courses, we would expect pupils to have achieved an 'A' or 'B' pass at the previous level. For example, a pupil wishing to study Higher Biology should have achieved at least a 'B' pass at National 5 Biology first. Pupils who have not achieved this are often advised to widen their qualifications portfolio by taking a new course. Statistically, pupils who achieve less than a 'B' pass at the previous level stand little chance of success at Higher or Advanced Higher. Progression tables can be viewed on the SQA website. Studying for a Higher or Advanced Higher is tough. Pupils studying a Higher should contribute two hours home study to this each week, this is in addition to homework/assignments set by your class teacher. Students achieving a C pass at a previous level should consider studying another National 5 or an NPA at the next level in a similar curricular area.

Fuel Change Course - S5 Pupils

All pupils will participate in our Fuel Change Course. Through this course pupils will:

- Develop an understanding of sustainability
- Gain a Scottish Credit and Qualifications Framework Level 6 Qualification with 8 credit points that goes on your UCAS and job applications
- Work on a challenge that real businesses are facing
- Learn more about industries and jobs of the future
- Develop the critical skills that employers are looking for

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Advanced Higher

For some pupils, sixth year is a time of transition between school and higher education. It is a year in which to reinforce good work patterns and to learn to study on one's own. Advanced Higher courses are intensive one year courses intended to cater for a critical approach to a subject. An A or B pass at Higher Grade is advisable for entry to each Advanced Higher subject and the work similar to that in the initial stages of degree courses. In many subjects, candidates will be required to produce a dissertation/project.

S5/6 Expectations

Pupils are allowed access to various social areas at interval, lunchtime and after school, and are expected to look after these areas.

Supervised Study periods must be spent studying in the allocated room.

Students in S5/6 will be expected to have regular attendance at school, to attend all timetabled classes (including PSE, tutor, core PE and any study classes), to cooperate fully with staff and to work hard to agreed targets.

Experience has shown that a structure of the kind outlined above leads to better examination results & the development of a more responsible attitude to study in the final years of schooling.

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S5/6 Timeline

Your child's Class teachers, tutor and Pupil Support staff are available to help your child choose courses suited to their needs and abilities.

Please see the information below which details the support and timeline for completion of the S5/6 options process.

Date	Event	Detail
15/02/24	Senior Curriculum Information Issued	Information regarding subject choices for S5/6 available on the school website - click here
	S4 and S5 Reports issued	Information regarding performance in current subjects and recommendations for next session
20/02/24	Senior Phase Information Evening (6-7pm)	Depute Head Teacher presentation taking parents/ pupils through the process of selecting subjects to study in S5 and S6
27/02/24	S4 Parents' Evening	Opportunity to meet with subject teachers, particularly with those subject's pupils are considering for S5
28/02/24	PTPS information to Tutor Groups	Principal Teacher Pupil Support provides information for Tutor Teachers to explain Subject Choice forms and answer questions
	PTPS visit S4 Tutor Classes	Principal Teacher Pupil Support visit S4 Tutor classes to explain Subject Choice forms and answer questions
29/02/24	PTPS meet S4	One to one appointment to discuss/finalise subject choices, if required
04/03/24	S4 into S5 Options Return Deadline	Completed Subject Choice Forms must be returned by your child to their Tutor Teacher at Tutor Time
08/03/24	S5 into S6 Options Return Deadline	Completed Subject Choice Forms must be returned by your child to their Tutor Teacher at Tutor Time

If, either students or parents/carers are still uncertain over subject choices, the student's Pupil Support teacher or, if appropriate, the Principal Teacher of Additional Support Needs will be pleased to help by appointment - Telephone 01461 202954.

SP Computing and Business Education

Administration and IT

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What will I learn?

Learners will develop:

- an understanding of administration in the workplace and key legislation affecting both organisations and employees.
- an understanding of good customer care and its benefits to organisations.
- digital skills and how to use them to perform administrative tasks.
- organisational skills in the context of organising and supporting events.

How will I learn?

Practical activities to develop skills in IT applications, problem-solving, organising, and managing information. The IT applications studied will be:

- Word-processing
- Desk Top Publishing
- Spreadsheets
- Databases
- Multimedia Presentations
- Electronic Communication

Research activities to provide skills, knowledge and understanding in:

- Customer service
- Health and Safety
- Security
- Internet Searching
- File Management
- Corporate Image
- Electronic Communication

How will I be assessed?

The assessment of the Course will be as follows:

Question Paper (50 marks) – a 2 hour practical examination to demonstrate their knowledge of using IT functions in spreadsheet and database applications, problem-solving and administration theory.

Course Assignment (70 marks) – a 3 hour practical examination to demonstrate their IT skills when producing and processing information, investigating, communicating and problem-solving

Career Opportunities

Students that enjoy Administration and IT should consider careers, such as; Accounting technician, Civil Service/Local Government Assistants, Database Administrator, Personal Assistant, GP Practice Clerical Assistant, Hotel receptionist and Information Systems/ Administrative/Office Managers.

SP Computing and Business Education

Administration and IT

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What will I learn?

This course provides learners with experience of authentic senior administration tasks and engaging practical activities relevant to the world of work. It encourages candidates to organise their work effectively, be aware of current legislation and the importance of customer care. The course helps learners to develop advanced administrative skills and digital literacy, enabling them to contribute to the effective functioning of organisations in supervisory administrative positions.

How will I learn?

Practical activities to develop skills in advanced functions within IT applications, problem-solving, and organising, communicating and managing information. The IT applications studied will be:

- Word-processing
- Desk Top Publishing
- Spreadsheets
- Databases
- Multimedia Presentations

Research activities to provide skills, knowledge and understanding in:

- Problem Solving
- Effective Teams
- Key legislation
- Customer service
- Impact of digital technologies
- Organising events
- Internet Searching
- Electronic Communication

How will I be assessed?

The assessment of the Course will be as follows:
Question Paper (50 marks) - Learners will complete a 1 hour and 30 minute examination to demonstrate their knowledge and understanding of administrative theory from all aspects of the course, and to draw valid conclusions based on the evidence provided.

Course Assignment (70 marks) - The purpose of this 2 hour assignment is to address challenge and application. It will assess learners' ability to apply their problem solving and advanced IT skills in the context of a complex scenario.

Career Opportunities

Students that enjoy Administration should consider careers, such as; Accounting Technician, Administrative Director, Civil Service/Local Government Officers, Database Administrator, Executive Assistant, GP Practice Manager, Hotel Receptionist, Information Systems/Administrative/ Office Managers and Teaching.

SP Computing and Business Education

Level 4/5 Business and Marketing

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NPA

What will I learn?

The National Progression Award in Business and Marketing at level 4 has been designed to provide learners with practical skills and theoretical knowledge required to work in a modern Business environment.

The National Progression Award in Business and Marketing at level 5 has been designed to provide learners with practical skills and theoretical knowledge required to work in a modern Business environment. It will provide opportunities for the development of skills and aptitudes that will improve learners' employment potential and career development within this business area.

How will I learn?

Research activities to provide skills, knowledge and understanding in:

- Research techniques
- Customer Service
- Communication
- Problem Solving
- Working in teams

Practical activities to develop skills in IT applications, organising, and managing information and working in an adaptable, flexible way.

How will I be assessed?

The assessment of the Course will be undertaken through the study and successful completion of the following units for each level:

Level 4

- Business in Action
- An Introduction to Marketing
- Enterprise Activity

Level 5

- Management of Marketing and Operations
- Marketing: Basic Principles and Applications
- Understanding Business
- Skills for Customer Care
- Event Organisation

Career Opportunities

Students that enjoy Business and Marketing should consider careers, such as; Accounting Technician, Civil Service/Local Government Assistants, Database Administrator, Personal Assistant, GP Practice Clerical Assistant, Information Systems/Administrative/Office Managers and Hotel Receptionist.

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Business Management

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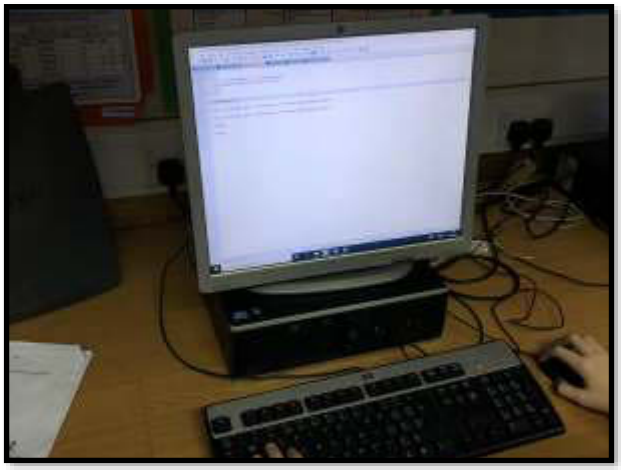

What will I learn?

Learners develop an understanding of:

- the ways in which society relies on organisations and how external influences can affect them
- a range of methods that businesses and other organisations use to meet customer needs
- enterprising skills and attributes
- how to analyse and interpret business information and communicate it in a clear and concise way

How will I learn?

Research Activities – to investigate and understand:

- the ways in which society relies on organisations and how external influences can affect them
- a range of methods that businesses and other organisations use to meet customer needs
- enterprising skills and attributes
- how to interpret business information and communicate it in a clear and concise way
- how to analyse marketing activities and how they can be used to enhance customer satisfaction
- how to undertake a range of activities to maximise the quality of goods and services
- leadership styles and how they can be used to enhance the contribution of staff to business success
- how to interpret business financial data, draw conclusions and suggest solutions
- how to use existing and emerging technologies to improve business practice

How will I be assessed?

The assessment of the Course will be as follows:
Question Paper (90 marks) – a 2 hour and 45 minute written examination to demonstrate their knowledge and understanding of business concepts, data handling techniques, analysis and evaluation of business solutions.
Course Assignment (30 marks) – an 8 hour practical assignment to research and analyse information, and produce a business report using given headings. The report is based on an analysis of the research findings and details appropriate conclusions and/or recommendations.

Career Opportunities

Students that enjoy Business Management should consider careers in; Administrative Director, Civil Service/Local Government Officers, Database Administrator, Executive Assistant, GP Practice Manager, Information Systems/Administrative/Office Managers and Teaching.

SP Computing and Business Education

Level 4/5/6 Computer Games Development

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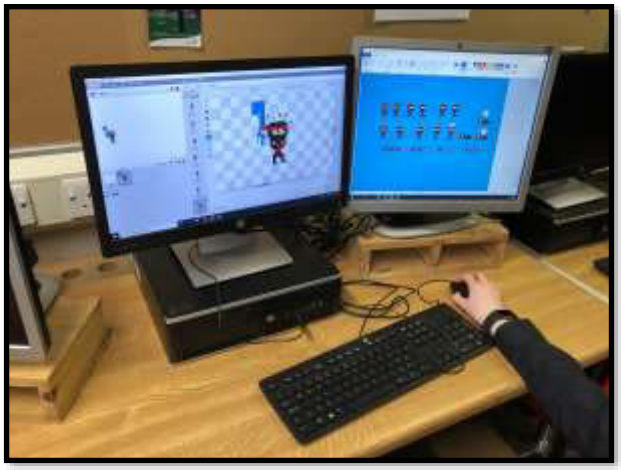

What will I learn?

The aim of this qualification is to provide current knowledge and required skills in the Computer Gaming Industry. The learners will develop skills in:

- computer programming
- computational thinking
- problem solving
- collaboration and team working
- employment

How will I learn?

Research activities to provide skills, knowledge and understanding in:

- Technical requirements
- Gaming Platforms
- Problem Solving
- Team working
- Storyboarding
- User requirements
- Game Genres
- Logical and Creative thinking

Practical activities to develop skills using advanced functions within the Scratch programming language and multi-media IT applications.

How will I be assessed?

The assessment of the Course will be undertaken through the study and successful completion of the following three units:

- Computer Games: Design
- Computer Games: Media Assets
- Computer Games: Development

Career Opportunities

Students that enjoy Computer Games Development should consider careers in; Software Developer, Computer Games Tester and an Animator.

SP Computing and Business Education

Computing Science

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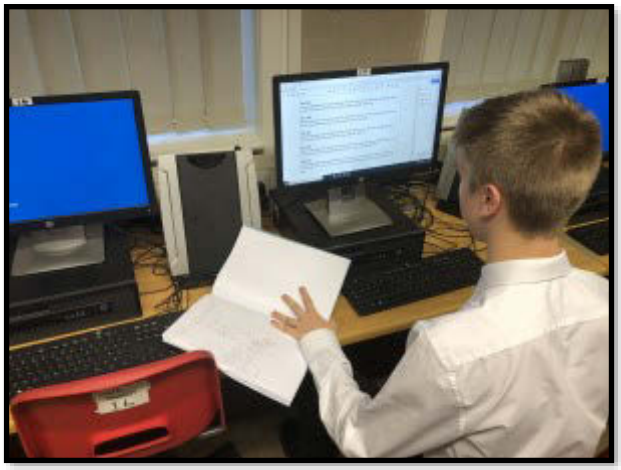

What will I learn?

The course focuses on 4 main areas of study.

- **Software Design and Development**
- **Web Design and Development**
- **Computer Systems**

How will I learn?

Research activities to provide skills, knowledge and understanding in:

- **Legal and security implications**
- **Technical specifications**
- **Environmental issues**
- **Logical and Creative thinking**
- **Problem Solving**
- **Communication**
- **Analysis and Design**
- **Testing and Evaluation**

Practical activities to develop skills using advanced functions within the HTML, JavaScript, Visual Basic and SQL programming languages, to implement solutions.

How will I be assessed?

Question Paper (80 marks) – Learners will complete a 1 hour and 30 minutes examination to demonstrate their knowledge and understanding of the Course Content and its application in a meaningful context. Course Assignment (40 marks) – Learners will complete a practical assignment over 6 hours to demonstrate practical application of knowledge and skills to develop database, web and software solutions to a computing science problem. It will assess learners' skills in analysing a problem, designing, implementing and testing a solution to the problem, and reporting on that solution.

Career Opportunities

Students that enjoy Computing Science should consider careers, such as; Software Developer, Web Designer, Information Systems Manager, Multimedia Programmer, Systems Analyst and a Database Administrator.

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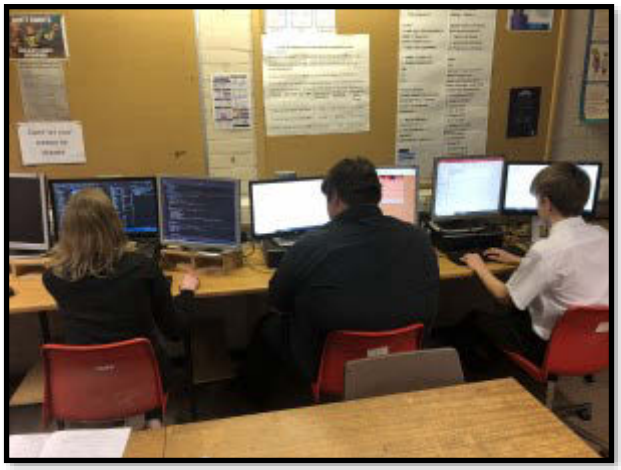

What will I learn?

This course highlights the central role of computing professionals as problem-solvers and designers, and the far-reaching impact of information technology on our environment and society. It provides learners with an understanding of the technologies and develops a wide range of practical skills that underpin our modern, digital world. The course also builds awareness of the importance of computing in meeting our needs today and for the future, in many fields including science, education, business and industry.

The course focuses on 4 main areas of study.

- Software Design and Development
- Web Design and Development
- Computer Systems

How will I learn?

Research activities to provide skills, knowledge and understanding in:

- Legal and security implications
- Technical specifications
- Environmental issues
- Logical and Creative thinking
- Problem Solving
- Communication
- Analysis and Design
- Testing and Evaluation

Practical activities to develop skills using advanced functions within the HTML, JavaScript, Visual Basic and SQL programming languages, to implement solutions.

How will I be assessed?

Question Paper (80 marks) – Learners will complete a 2 hour examination to demonstrate their knowledge and understanding of the Course Content and its application in a meaningful context. Course Assignment (40 marks) – Learners will complete a practical assignment over 6 hours to demonstrate practical application of knowledge and skills to develop web, database and software solutions to an appropriately challenging computing science problem.

Career Opportunities

Students that enjoy Computing Science should consider careers, such as; Software Developer, Web Designer, Information Systems Manager, Multimedia programmer, Database Administrator. The skills in the course are transferable to all areas of computing-related study including robotics, artificial intelligence, e-commerce, networking, cyber security, and systems analysis and testing.

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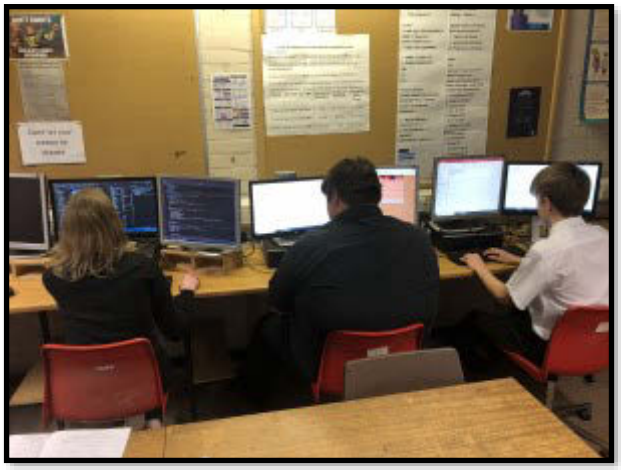


What will I learn?

The course enables learners to:

- understand and apply computational-thinking skills across a range of computing contexts
- extend and apply knowledge and understanding of advanced concepts and processes in computing science
- apply skills and knowledge in analysis, design, development, implementation, testing, and evaluation to a range of digital solutions with increasingly complex aspects
- apply creative problem-solving skills across a range of contexts
- develop autonomous learning, investigative, and research skills
- communicate advanced computing concepts clearly and concisely, using appropriate terminology
- develop an informed understanding of the role and impact of computing technologies in influencing our environment and society

How will I learn?

Research activities to provide skills, knowledge and understanding in:

- Data Representation
- Technical specifications
- Environmental issues
- Security Risks and Precautions
- Logical and Creative thinking
- Problem Solving
- Communication
- Analysis and Design
- Testing and Evaluation

Practical activities to develop skills using advanced functions within the PHP, HTML, Green Foot, JavaScript, Visual Basic and SQL programming languages, to implement solutions.

How will I be assessed?

Question Paper (55 marks) – Learners will complete a 2 hour written examination to demonstrate their knowledge and understanding of the Course Content and its application in a meaningful context.
Course Assignment (80 marks) – The purpose of the assignment is to assess practical application of knowledge and skills from the Units to develop an integrated solution to an appropriately challenging computing science problem. It will assess learners' skills in planning and designing a solution to a problem, implementing and testing a solution, and evaluating and reporting on that solution.

Career Opportunities

Students that enjoy Computing Science should consider careers, such as; Software Developer, Web Designer, Information Systems Manager, Multimedia programmer, Database Administrator, Software Engineer. The skills in the course are transferable to all areas of computing-related study including robotics, artificial intelligence, e-commerce, networking, cyber security, and systems analysis and testing.

SP Computing and Business Education

Level 4/5 Travel and Tourism

Contact: Mrs. S. Lemmon (PT Computing and Business Education)
E-Mail: gw08lemmonshirley@ea.dumgal.sch.uk

NPA

What will I learn?

The National Progression Award in Travel and Tourism has been designed to provide learners with practical skills and theoretical knowledge in customer care, enterprise (selling) skills, product knowledge required to provide customers with advice on travelling within Scotland, UK and Worldwide. It will provide opportunities for the development of skills and aptitudes that will improve learners' employment potential and career development within this business area.

How will I learn?

Research activities to provide skills, knowledge and understanding in:

- Selling techniques
- Customer Service
- Communication
- Product knowledge
- Working in teams

Practical activities to develop skills in IT applications, organising, and managing information and working in an adaptable, flexible way.

How will I be assessed?

The assessment of the Course will be undertaken through the study and successful completion of coursework in the following four areas:

- Customer Service
- Employability
- Scotland
- UK and Worldwide

Career Opportunities

Students that enjoy Travel and Tourism should consider careers, such as; Travel Agent/Consultant, Travel Blogger, Air Cabin Crew, Holiday Representative, Tour Officer/Manager, Ecotourism and Hotel Industry.

Art and Design

Contact: Mr. J. Brand (PT Expressive Arts)
E-Mail: gw08brandjames@ea.dumgal.sch.uk

N3 to H

What will I learn?

- Through art and design, learners have rich opportunities to be creative and to experience inspiration and enjoyment.
- Explore a wide range of two- and three-dimensional media and technologies through practical activities, and create, express, and communicate ideas
- Study of the works of artists and designers enhancing enjoyment and deepening knowledge and understanding, including cultural values, identities and ideas, helping to improve creative confidence.

How will I learn?

- Units will comprise of a series of practical activities involving investigating, working out ideas and the production of finished pieces of work. Develop problem solving, critical thinking and imagination skills while creating a variety of art and design work.
- Plan, develop and produce creative art and design work based on chosen themes.
- Communicate thoughts and feelings on a variety of artists and designers work.

How will I be assessed?

There are two main areas:
Expressive project including critical analysis

- produce observational drawings and studies and develop ideas for art work by experimenting with a range of materials and techniques. Analyse the work of artists by researching, discussing and communicating.

Design project including critical analysis

- Plan, research and develop unique design ideas which demonstrate problem solving skills, working in 2d or 3d. Analyse the work of designers researching discussing and communicating.

Career Opportunities

An Art & Design course develops both intellectual and practical skills and is, therefore, beneficial for a wide range of careers, particularly: Fine Art (painting, sculpture, printmaking, conceptual art), Teaching, Architecture and Planning, Printing and Packaging, Product and Interior Design, Media and Advertising, Galleries and museum work, Photography and film, The Fashion Industry, Hairdressing and Beauty Care, Games design, computer generated imaging, Animation, Costume and Set design and Web design.

Contact: Mr. J. Brand (PT Expressive Arts)
E-Mail: gw08brandjames@ea.dumgal.sch.uk

N4/5

What will I learn?

At National 4 you will learn to:

- Generate and communicate thoughts and ideas when creating drama
- Develop skills for presenting drama
- Develop production skills for presenting drama
- Use drama skills in a drama performance
- Explore form, structure and genre.

At National 5, you will learn:

- How to respond to stimuli
- About form, structure, genre and conventions
- About production skills (lighting, sound, costume, make-up, set design and props)
- About creating and performing characters
- How to evaluate your own, your peers and professionals work.

How will I learn?

The best way to learn in Drama is through practical experience of performing and production skill roles. You will work in groups and on individual tasks. Regular theory inputs lessons throughout the course will develop your knowledge and understanding.

How will I be assessed?

At National 4 you must complete 3 units to achieve your course award: Drama Skills, Production Skills and the Added Value unit. For each of these units you will create and present a piece of drama in a group. Your teacher will assess your progress regularly throughout the course.

At National 5 you will take part in a Performance Exam in which you will specialise as either as an Actor or a Production Role. This usually takes place around the Easter holidays and is worth 60% of your final grade.

A written exam paper makes up the last 40% of your grade. This assesses the skills knowledge and understanding you have developed over the course. This happens in May each year.

Career Opportunities

Actor, circus performer, Advertising, Teaching, Costume, PR, Stage management, Events management, Researcher, Drama Therapy, TV/Film/ Theatre producer, TV/Film/Theatre director, Playwright, musical director, speech therapy, armourer, retail, foley operator, TV floor manager, Voice over artist, Stunt designer, Sound, Festival organiser, Dramaturg, Youth work, Charity work, Puppeteer, tour guide, Youth theatre leader, Set design, Box office manager, Lighting, Usher, Critic, Dresser, Education officer, lecturer, TV/Film production runner, make-up etc.

Contact: Mr. J. Brand (PT Expressive Arts)
E-Mail: gw08brandjames@ea.dumgal.sch.uk

H

What will I learn?

There are three main components in higher drama: Textual Analysis – this is based on a set play that pupils will study; Live Performance – pupils will see a live theatre analysis production or live recording and unpick designers', actors' and directors' practice; Practical Performance – Pupils may work as actors, designers or directors in producing a piece of theatre.

We develop a knowledge of practical theatre but also the practical skills required in making and analysing theatre.

How will I learn?

Pupils will take part in workshops, rehearsals and theory based periods. Pupils active engagement is essential for success in workshops and rehearsals. Regular private study and research goes alongside theory based periods to allow pupils to develop their own attitudes and awareness of the wider theatrical world.

How will I be assessed?

There are two assessments for pupils:

- Written paper (40%) – Theatre Production: Text in Context, Theatre Production: Application, Performance Analysis
- Practical Exam (60%) – Acting, Directing or Designing

Career Opportunities

Pupils can choose to opt for Advanced Higher Drama or may benefit from studying one of NPAs. Successful completion of this course has seen pupils accepted to various university and college courses. Pupils have attended The Royal Conservatoire of Scotland, Queen Margaret's Edinburgh and Cumbria University to study Musical Theatre, Acting, Stage Technologies. Many pupils who have studied Higher Drama have gone on to work professionally in Theatre.

Drama is useful for careers in performing arts industry, Law, Education/Childcare, Marketing/Advertising, Public Relations/Human Resources among many others.

SP Expressive Arts

Level 5 Drawing Skills

Contact: Mr. J. Brand (PT Expressive Arts)
E-Mail: gw08brandjames@ea.dumgal.sch.uk

NPA

What will I learn?

- Through drawing learners will experience opportunities to be inspired and be creative.
- Explore a wide range of drawing media and techniques through practical activities to create, express and communicate ideas.
- Develop problem solving, critical thinking and investigative skills.

How will I learn?

- Develop introductory skills in drawing media through the investigation of and experimentation with materials.
- Develop drawing techniques through production of outline drawings, drawings of rectilinear objects and drawings of cylindrical and spherical objects.
- Further develop drawing skills and techniques through the visual analysis of subject matter using a range of materials, styles, and techniques.
- Extend and develop drawing skills through the analysis of elements of the local 'built environment'.

How will I be assessed?

- Assessment is done within the centre.
- Produce a folio of work demonstrating progress.
- Completion of learning outcomes will culminate in the overall award.

Career Opportunities

The drawing course develops practical skills and is therefore beneficial to a wide range of career opportunities such as fine art (painting, sculpture, print making, conceptual art), teaching, architecture, galleries and museum work, photography and film, fashion, games design, computer imagery and animation.

Contact: Mr. J. Brand (PT Expressive Arts)
E-Mail: gw08brandjames@ea.dumgal.sch.uk

N4/5

What will I learn?

You will develop practical skills on two instruments and/or voice, performing a varied programme totalling 8 minutes over both disciplines. This needs to be at an equivalent standard of ABRSM Grade 2 (N4)/ Grade 3(N5).

You will gain experience in composing, through the completion of a short piece of music (1 – 3 mins.) using ICT in the form of an Improvisation(N4). A review, based on constant reflection on the process, is also required.

Through a variety of listening experiences, including live performances, you will gain an understanding of musical concepts and how to identify these.

How will I learn?

Through a variety of solo and group activities, you will experience playing and performing music from different genres and will evaluate your own performances and the performances of others.

You will combine practical skills and ICT to create and develop musical compositions.

By listening to a wide range of music, you will gain an understanding of musical concepts and literacy.

How will I be assessed?

National 4 assessment is ongoing and will be assessed by your classroom teacher on a Pass/Fail basis.

National 5
Practical Performance
Instrument 1(or Voice) (25%) Assessed by Visiting external examiner from February 2021.
Instrument 2 (25%) Assessed by Visiting external examiner from February 2021.
Composing (15%) Composition along with review, submitted to SQA April 2021
Understanding Music (35%) A written paper, completed in May 2021 as part of the main exam diet is also externally marked .

Career Opportunities

Performing musician, live events production, music journalist, songwriter, club, theatre and arena management, tour manager, music producer, radio and television, musical theatre, accompanist, cruise ship musician, sound designer, video game music designer, music teacher, instrumental instructor, armed forces musician, orchestral / choral conductor, music therapist.

Music

Contact: Mr. J. Brand (PT Expressive Arts)
E-Mail: gw08brandjames@ea.dumgal.sch.uk

H

What will I learn?

You will develop practical skills on two instruments and/or voice, performing a varied programme totalling 12 minutes over both disciplines. This needs to be at an equivalent standard of ABRSM Grade 4.

You will gain experience in composing, through the completion of a short piece of music (1 – 3 mins.) using ICT. A review, based on constant reflection on the process, is also required.

Through a variety of listening experiences, including live performances, you will gain an understanding of musical concepts and how to identify these.

How will I learn?

Through a variety of solo and group activities, you will experience playing and performing music from different genres and will evaluate your own performances and the performances of others.

You will combine practical skills and ICT to create and develop musical compositions.

By listening to a wide range of music, you will gain an understanding of musical concepts and literacy.

How will I be assessed?

Practical Performance
Instrument 1(or Voice) (25%) Assessed by Visiting external examiner from February 2021.
Instrument 2 (25%) Assessed by Visiting external examiner from February 2021.
Composing (15%) Composition along with review, submitted to SQA April 2021

Understanding Music (35%) A written paper, completed in May 2021 as part of the main exam diet is also externally marked.

Career Opportunities

Performing musician, live events production, music journalist, songwriter, club, theatre and arena management, tour manager, music producer, radio and television, musical theatre, accompanist, cruise ship musician, sound designer, video game music designer, music teacher, instrumental instructor, armed forces musician, orchestral / choral conductor, music therapist.

Contact: Mr. J. Brand (PT Expressive Arts)
E-Mail: gw08brandjames@ea.dumgal.sch.uk

AH

What will I learn?

You will develop practical skills on two instruments and/or voice, performing a varied programme totalling 18 minutes over both disciplines. This needs to be at an equivalent standard of ABRSM Grade 5.

You will gain experience in composing, through the completion of a short piece of music (1 – 3 mins.) using ICT. A review, based on constant reflection on the process, is also required.

A short written assignment in the form of an essay (850 words) on a chosen musical work, exemplified by musical extracts from scores or recordings.

Through a variety of listening experiences, including live performances, you will gain an understanding of musical concepts and how to identify these.

How will I learn?

Through a variety of solo and group activities, you will experience playing and performing music from different genres and will evaluate your own performances and the performances of others.

You will combine practical skills and ICT to create and develop musical compositions.

By listening to a wide range of music, you will gain a deeper understanding of musical concepts and literacy.

How will I be assessed?

Practical Performance
Instrument 1(or Voice) (25%) Assessed by Visiting external examiner in May 2021.
Instrument 2 (25%) Assessed by Visiting external examiner in May 2021.
Composing (10%) Composition along with review, submitted to SQA April 2021.
Assignment (5%) An 850-word essay submitted to SQA April 2021.
Understanding Music (35%) A written paper, completed in May 2021 as part of the main exam diet is also externally marked.

Career Opportunities

Performing musician, live events production, music journalist, songwriter, club, theatre and arena management, tour manager, music producer, radio and television, musical theatre, accompanist, cruise ship musician, sound designer, video game music designer, music teacher, instrumental instructor, armed forces musician, orchestral / choral conductor, music therapist.

Music Technology

Contact: Mr. J. Brand (PT Expressive Arts)
E-Mail: gw08brandjames@ea.dumgal.sch.uk

N5

What will I learn?

I will learn about a range of music from the 20th and 21st Centuries, e.g. Jazz, Rock, Pop and EDM.

I will learn about the music and recording industry, and how this has developed over the last century.

I will develop music technology skills such as recording, creating, mixing and editing sounds.

I will learn how to record instruments and voices in a recording studio using microphones.

I will create two projects, which could include sound design for a film, a radio broadcast, sound effects for a film, a multi-track or an audio book.

How will I learn?

I will learn through a range of teacher demonstration and practical activities, including group and individual work.

I will get the opportunity to experiment with several different types of music and instrumentation when applying microphone techniques.

I will be able to experiment with audio capture of other sound sources to create sound effects.

I will take part in listening activities to gain an understanding of music from the 20th – 21st century, and the development of music technology during this time.

How will I be assessed?

I will be assessed through two projects which are submitted in March. This can include creating a live performance, radio broadcast, composing and/or sound design for film, audiobooks and computer gaming.

A final written listening exam will take part in May.

Career Opportunities

Sound engineer, radio and television production, film and game sound design, recording studio management, radio broadcast engineer, music producer, media specialist, audio and lighting technician, recording artist, multimedia specialist.

Music Technology

Contact: Mr. J. Brand (PT Expressive Arts)
E-Mail: gw08brandjames@ea.dumgal.sch.uk

H

What will I learn?

You will develop skills in the analysis of music in the context of 20th and 21st century musical styles and genres e.g Jazz, Rock, Pop and EDM, with more detailed knowledge required.

You will develop skills in the use of music technology hardware and software to capture and manipulate audio.

You will use music technology creatively in sound production in a range of contexts. This can include radio broadcast, composing and/or sound design for film, audiobooks and computer gaming.

You will learn to create a multi-track, or electronically produce music.

How will I learn?

You will learn through a range of teacher demonstration and practical activities, including group and individual work.

You will get the opportunity to experiment with several different types of music and instrumentation when applying microphone techniques.

You will be able to experiment with audio capture of other sound sources to create sound effects.

You will take part in listening activities to gain an understanding of music from the 20th – 21st century, and the development of music technology during this time.

You will develop the ability to use hardware and software to manipulate audio from a range of sound sources.

How will I be assessed?

I will be assessed through one piece of coursework which is submitted in March. This can include creating a live performance, radio broadcast, composing and/or sound design for film, audiobooks and computer gaming. It must include multi-tracked recording(s) of sounds and/or music, and multi-tracked, electronically produced sounds

A final written listening exam will take part in May

Career Opportunities

Sound engineer, radio and television production, film and game sound design, recording studio management, radio broadcast engineer, music producer, media specialist, audio and lighting technician, recording artist, multimedia specialist.

Level 6 Musical Theatre

Contact: Mr. J. Brand (PT Expressive Arts)
E-Mail: gw08brandjames@ea.dumgal.sch.uk

NPA

What will I learn?

Pupils will study 3 of the following units:

- Acting through Song (1 Credit Value)*
- Solo singing performance (1 Credit Value) **
- Group singing performance (1 Credit Value) **
- Group dance performance (1 Credit Value)
- Preparation for audition (1 Credit Value) **
- (* Mandatory unit **Suggested pathway units)

They will look at basic singing, vocal and movement skills in preparing for a performance of musical theatre.

How will I learn?

Pupils are assessed in school in their solo and group performances where we assess use of voice and movement and portrayal of character. There is a portfolio to document their process and research which is also used for marking purposes. A key part of this process is how pupils reflect on their own work.

How will I be assessed?

I will be assessed through one piece of coursework which is submitted in March. This can include creating a live performance, radio broadcast, composing and/or sound design for film, audiobooks and computer gaming. It must include multi-tracked recording(s) of sounds and/or music, and multi-tracked, electronically produced sounds

A final written listening exam will take part in May

Career Opportunities

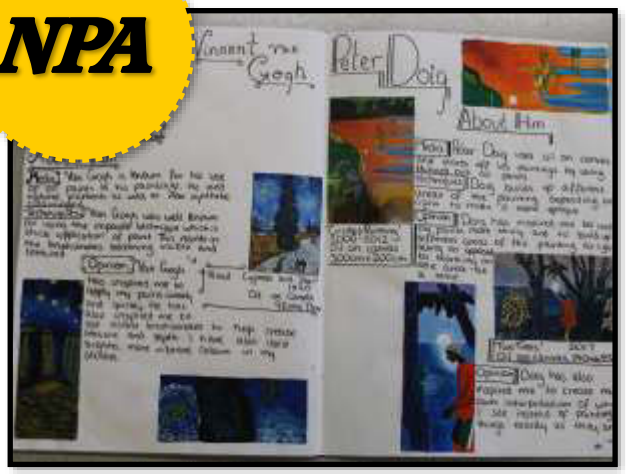
Pupils can choose to opt Higher Drama or Music. Successful completion of performing arts courses at Annan has seen pupils accepted to various university and college courses. Pupils have attended The Royal Conservatoire of Scotland, Queen Margaret's Edinburgh and Cumbria University to study Musical Theatre, Acting, Stage Technologies. Many pupils who have studied Higher Drama have gone on to work professionally in Theatre.

Musical theatre is useful for careers in performing arts industry, Law, Education/Childcare, Marketing/Advertising, Public Relations/Human Resources among many others.

Level 5 Painting Skills

Contact: Mr. J. Brand (PT Expressive Arts)
E-Mail: gw08brandjames@ea.dumgal.sch.uk

NPA



What will I learn?

- Through painting learners will experience opportunities to be inspired and be creative.
- Explore a wide range of paint media and techniques through practical activities to create, express and communicate ideas.
- Develop problem solving, critical thinking and investigative skills.

How will I learn?

- Develop introductory skills in colour theory through the investigation of and experimentation with colour and materials.
- Develop painting techniques through production of investigative studies and developmental compositions.
- Further develop painting skills and techniques through the visual analysis of subject matter using a range of materials, styles, and techniques.
- Extend and develop painting skills through the analysis of elements of the local 'natural environment'.

How will I be assessed?

- Assessment is done within the centre.
- Produce a folio of work demonstrating progress.
- Completion of learning outcomes will culminate in the overall award or awarding of specific units.

Career Opportunities

The painting course develops practical skills and is therefore beneficial to a wide range of career opportunities such as fine art (painting, sculpture, print making, conceptual art), teaching, architecture, galleries and museum work, photography and film, fashion, games design, computer imagery and animation.

Level 6 Sound Production

Contact: Mr. J. Brand (PT Expressive Arts)
E-Mail: gw08brandjames@ea.dumgal.sch.uk

NPA

What will I learn?

I will learn about a range of music from the 20th and 21st Centuries, e.g. Jazz, Rock, Pop and EDM.

I will learn about the music and recording industry, and how this has developed over the last century.

I will learn how to record instruments and voices in a recording studio using microphones.

I will learn to record and create my own sound effects along with a film

I will develop music technology skills such as recording, creating, mixing and editing sounds.

I will create two projects, which could include sound design for a film, a radio broadcast, sound effects for a film, a multi-track or an audio book.

I will learn to remix songs together and / or use the DJ Decks

How will I learn?

I will learn through a range of teacher demonstration and practical activities, including group and individual work.

I will get the opportunity to experiment with several different types of music and instrumentation when applying microphone techniques.

I will learn to experiment with different recording techniques

I will be able to experiment with audio capture of other sound sources to create sound effects.

I will take part in listening activities to gain an understanding of music from the 20th – 21st century, and the development of music technology during this time.

How will I be assessed?

I will be continuously assessed throughout the year. This will be in the form of practical tasks and submitted projects.

All work is due in by the end of May.

Career Opportunities

Sound engineer, radio and television production, film and game sound design, recording studio management, radio broadcast engineer, music producer, media specialist, audio and lighting technician, recording artist, multimedia specialist.

SP Expressive Arts

Level 6 Technical Theatre in Practice

Contact: Mr. J. Brand (PT Expressive Arts)
E-Mail: gw08brandjames@ea.dumgal.sch.uk

NPA

What will I learn?

NPA technical theatre in practice will allow you to learn about all aspects of technical theatre from set design to sound. The course is made up of compulsory units and optional units.

Compulsory Units

- Technical Theatre in Context (1 Credit Value)
- Theatrical Design (1 Credit Value)

Optional Units (Choose One)

- Theatre Stage Lighting Operations (1 Credit Value)
- Theatre Stage Sound Operations (1 Credit Value)
- Theatrical Prop Making (1 Credit Value)
- Creative Project (1 Credit Value)
- Theatre Stage Model Set Construction (1 Credit Value)

How will I learn?

You will take part in a range of practical and theory lessons over the course of the year. These will develop your knowledge and skills which are directly relevant to current and/or future practice in the technical theatre industry. You will also be building on your creative critical problem solving, team working, analytical and communication skills. All while Developing a range of applied design and practical skills, competences and understanding within areas of technical theatre.

There will be a mixture of independent and group work through the year as well as you create, share ideas and put ideas into practice.

How will I be assessed?

All assessment is done within the centre. You will have to keep a folio of work documenting your progress and development of roles. you will also be assessed practically on your abilities in a performance for your relevant unit.

Career Opportunities

Pupils can choose to opt Higher Drama or Music. Successful completion of performing arts courses at Annan has seen pupils accepted to various university and college courses. Pupils have attended The Royal Conservatoire of Scotland, Queen Margaret's Edinburgh and Cumbria University to study Musical Theatre, Acting, Stage Technologies. Many pupils who have studied Higher Drama have gone on to work professionally in Theatre.

SP Health and Wellbeing

Football and Fitness

Contact: Mr. D. Brown (PT Physical Education)
E-Mail: gw16browndylan@ea.dumgal.sch.uk

N4/5

What will I learn?

- How factors (mental, emotional, social and physical) impact on your performance in football
- How to improve your overall football performance through carrying out a cycle of analysis. This includes gathering data on your performance, analysing the data, putting a training plan in place to improve your weakest areas before evaluating to see the improvements you have made
- How to improve different aspects of fitness (through the use of our school gym) and the impact this will have on your football performance
- The laws and rules of the game of football and basic refereeing

How will I learn?

- By practically participating and engaging in football and fitness programmes, both at Galabank stadium and our school gym
- Classroom sessions will be planned once a week to allow pupils to reflect on their learning that week, plan sessions, and begin their written portfolio work

How will I be assessed?

You will be assessed through two practical activities:

- Football (25% of overall mark)
- An athletics event of your choice (developed through fitness through the year) (25% of overall mark)
- Written portfolio:
  Either at National 4 or National 5 level depending on level of work produced during the year. (50% of overall mark)

Career Opportunities

This course will lead you onto further courses in our senior phase of school:

- Sports Leadership
- Football Refereeing
- Exercise and Fitness

These can all be used as tariff points to access University and College courses such as:

- Sports Coaching
- Fitness Instructor
- Personal Trainer
- Sports Science
- Sport and Leisure

SP Health and Wellbeing

Level 4 Introduction to Horse Care

Contact: Mr. D. Brown (PTc Physical Education)
E-Mail: gw16browndylan@ea.dumgal.sch.uk

NPA

What will I learn?

In partnership with the Scottish Racing Academy the purpose of this course is to provide pupils with the necessary skills and knowledge to be able to confidently work and care for horses. This course is suitable for those who have a keen interest in horses and who would like to progress to further employment prospects within the Equine Industry

.

This course is split into four units:

- Unit 1 – Horse Identification and Handling a Quiet Horse Safely
- Unit 2 – Assist with Grooming a Quiet Horse
- Unit 3 – Tack and Tacking Up
- Unit 4 – Stable Routine

Throughout this qualification the emphasis will be on safe working and skills required for initial employment in the equine industry.

How will I learn?

Practical learning will be delivered at Jenny Mills Riding Stables in Brydekirk while weekly theory lessons will take place in school. Pupils will work one on one with horses specifically chosen by the stables and will also have the opportunity to take part in riding lessons instructed by a Scottish Racing Academy Instructor.

Learning is delivered on a rotational basis:

- Week A & B – 1 practical lesson and 2 theory lessons
- Week C – 2 practical lessons and 1 theory lesson

How will I be assessed?

Assessment is completed within each unit of the course. Practical assessments will take place out on the yard and theory assessments will be carried out in the classroom. Pupils will be well prepared through coursework before sitting their assessments. Pupils are required to pass all assessments and attend lessons regularly to gain the full qualification.

Career Opportunities

Pupils that enjoy working with horses should consider a career as a Riding Instructor, Mounted Police Officer, Equine Vet, Groom, Yard worker at a riding centre or racing yard, Racing trainer, Jockey.

SP Health and Wellbeing

Level 5 Introduction to Racing Yard Routine

Contact: Mr. D. Brown (PTc Physical Education)
E-Mail: gw16browndylan@ea.dumgal.sch.uk

NPA

What will I learn?

In partnership with the Scottish Racing Academy the purpose of this course is to provide pupils with an understanding of the principles of caring for both riding centre horses and racehorses and how they can be applied into practice. This course is suitable for pupils who have completed the NPA Level 4 Introduction to Horse Care or have a high level of horse care experience. The course will introduce the learner to the routine care, healthcare, feeding and exercise requirements of horses and racehorses. Throughout this qualification the emphasis will be on safe working and skills required for employment in the racing industry.

- This course is split into four units:
- Unit 1 - Horse Care - Horse Health
- Unit 2 - Safe Working Practices
- Unit 3 - Racehorse Care - An Introduction (morning and daily routine)
- Unit 4 - Feeding and Watering

How will I learn?

Practical learning will be delivered at Jenny Mills Riding Stables in Brydekirk while weekly theory lessons will take place in school. Pupils will work one on one with horses specifically chosen by the stables and will also have the opportunity to take place in riding lessons with lessons instructed by a Scottish Racing Academy Instructor.

Learning is delivered on a rotational basis:

- Week A & B – 1 practical lesson and 2 theory lessons
- Week C – 2 practical lessons and 1 theory lesson

How will I be assessed?

Assessment is completed within each unit of the course. Practical assessments will take place out on the yard and theory assessments will be carried out in the classroom. Pupils will be well prepared through coursework before sitting their assessments. Pupils are required to pass all assessments and attend lessons regularly to gain the full qualification.

Career Opportunities

As part of the life-long learner journey the Scottish Racing Academy also offer a further range of courses including Full Time options and a range of NPAs designed for current stable staff to develop their existing skills.

Additional information and our full offering of courses can be found on our website:

https://scottishracingacademy.co.uk/

Contact: Mr. D. Brown (PTc Physical Education)
E-Mail: gw16browndylan@ea.dumgal.sch.uk

N4 to H

What will I learn?

You will learn:

- how factors (mental, emotional, social and physical) impact on your performance
- how to improve your performance by following a cycle of analysis: gathering data; analysing the data, identifying development needs; planning a personal development programme (PDP); implementing the PDP; monitor progress during the PDP; evaluating the effectiveness of the PDP; and, evaluating the effectiveness of your performance following the PDP.
- how to answer exam questions using the command words of: identify, describe, explain, justify and evaluate.

How will I learn?

By practically participating in activities while experiencing the cycle of analysis stages. Practical activities that have been used for this purpose are:

- swimming / biathlon, focusing on physical (fitness) and emotional factors
- badminton, focusing on physical (skill) and mental factors
- volleyball / netball, focusing on physical (tactics) and social factors

Each year we do negotiate with learners about activities so they might change.

Classroom sessions are planned into the programme to practise the writing skills required to meet the portfolio assessment demands.

How will I be assessed?

N4 – Candidates must meet the unit assessment standards in 2 practical performances, the Factors Impacting on Performance Unit (this is a written test of understanding) and the Added Value Unit of Performance in 1 activity.
N5 & Higher Performance – candidates select the two performances they would like to be assessed in. Each performance is assessed out of 30 marks leading to a mark out of 60. This assessment is equivalent to 50% of the overall course mark.
N5 Portfolio – candidates answer 16 questions in a written portfolio that is sent to SQA for marking. The portfolio is worth 60 marks and is equivalent to 50% of the overall course mark.
Higher Exam – candidates sit an exam paper worth 50 marks in a time limit of 2 hours and 30mins. This assessment is equivalent to 50% of the overall course mark.

Career Opportunities

Used for Tariff Points to access University Courses; Sports Coaching; Professional Sport; Fitness Instructor; Teaching; Physiotherapy; Personal Trainer; Sports Journalism; Sports Science; Sports Medicine .

SP Health and Wellbeing

Level 6 Sport Leadership UK

Contact: Mr. D. Brown (PTc Physical Education)
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SL

For S5/6 Students only

What will I learn?

You will learn to plan, lead and evaluate activity sessions for younger people and older generations within the community. Communication skills, working with others and confidence are key skills that are developed throughout this course.

How will I learn?

Learning mainly takes place in practical scenarios to develop leadership skills. Some classroom based learning is used to further develop understanding. Application of the skills developed is experienced through assisting with events such as primary triathlon, primary tag rugby, primary sports hall athletics, disability sports events and visits to associated primary schools.

How will I be assessed?

Assessment requires the completion of a written log book with responses meeting the assessment standards. 30 hours demonstrating leadership skills with a school, sports or community club need to be completed.

Career Opportunities

Sports Coaching; Professional Sport; Fitness Instructor; Personal Trainer; Sports Journalism.

English

Contact: Mrs. H. Dalziel (PT Languages)
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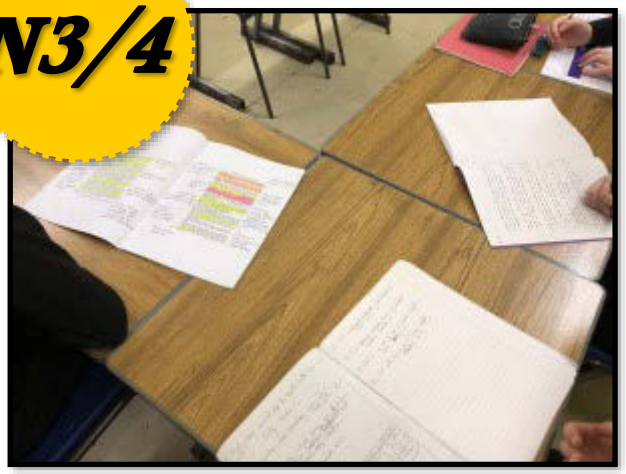
N3/4



What will I learn?

English will enable learners to develop the ability to listen and talk, read and write as appropriate to purpose, audience and context. Learners will also develop the ability to understand, analyse and evaluate texts, including Scottish texts, in the contexts of literature, language and media. Learners will also create and produce texts and apply knowledge and understanding of language.

How will I learn?

Learning will take place through a study of literature in different genres including drama, prose fiction, prose non-fiction, poetry and film and television drama. This literature will include Scottish texts. Learners will develop close reading skills through the study of non-fiction texts; develop the skills to create a range of non-fiction and fiction texts; and take part in regular group discussion to develop listening and talking skills.

How will I be assessed?

All units are internally assessed, there is no external examination. This course is awarded on a pass/fail basis.
At N3 the course consists of 3 units:

- Understanding Language - listening and reading skills
- Producing Language - talking and writing skills
- Literacy - reading, writing, listening and talking skills relevant for learning, life and work

At N4 the course consists of 4 units:

- Analysis and Evaluation - listening and reading skills
- Creation and Production - talking and writing skills
- Literacy - reading, writing, listening and talking skills relevant for learning, life and work
- Added Value Unit – learners apply their language skills to investigate and report on a chosen topic

Career Opportunities

Language and literacy are of major importance and allow pupils access to an incredible array of future careers because the ability to express ourselves clearly and communicate effectively are key in every area of employment.

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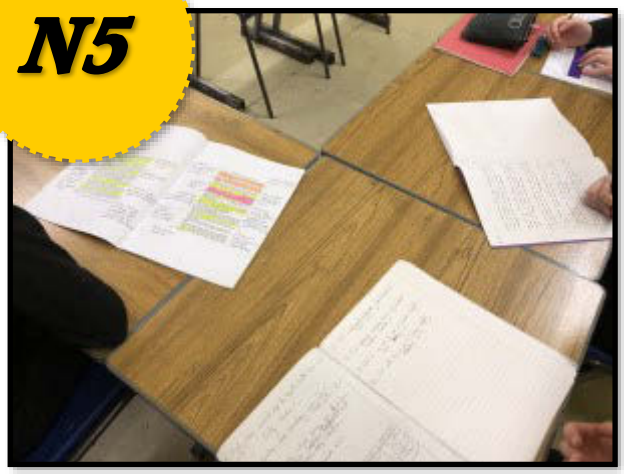
N5



What will I learn?

English will enable learners to develop the ability to listen and talk, read and write as appropriate to purpose, audience and context. Learners will also develop the ability to understand, analyse and evaluate texts, including Scottish texts, in the contexts of literature, language and media. Learners will also create and produce texts and apply knowledge and understanding of language.

The N5 course consists of 2 units:

- Analysis and Evaluation - listening and reading skills in literature, language and media, and understand, analyse and evaluate detailed texts
- Creation and Production - create and produce detailed texts in both written and oral forms

How will I learn?

Learning will take place through a study of literature in different genres including drama, prose fiction, prose non-fiction, poetry and film and television drama. This literature will include Scottish texts. Learners will develop close reading skills through the study of non-fiction texts; develop the skills to create a range of non-fiction and fiction texts; and take part in regular group discussion to develop listening and talking skills.

N5 Internal Assessments

- Regular unit assessments throughout the year will allow staff and learners to monitor progress
- Spoken Language – This unit is marked on a pass/fail basis and must be completed prior to the exam

How will I be assessed?

Portfolio – 30 % of overall grade

- 2 writing pieces, one broadly discursive and one creative/reflective. Learners will prepare their pieces over a period of time.

Exam – 70% of overall grade:

- Paper 1 – Reading for Understanding, Analysis and Evaluation (30%). Learners will answer questions on one unseen non-fiction text.
- Paper 2 – Critical Reading (40%). This section has two parts. In part 1 learners will answer questions on a Scottish text. In part 2 learners will write one critical essay on their chosen text from one of the following genres: drama, prose, poetry, film and TV drama or language.

Career Opportunities

Language and literacy are of major importance and allow pupils access to an incredible array of future careers because the ability to express ourselves clearly and communicate effectively are key in every area of employment.

English

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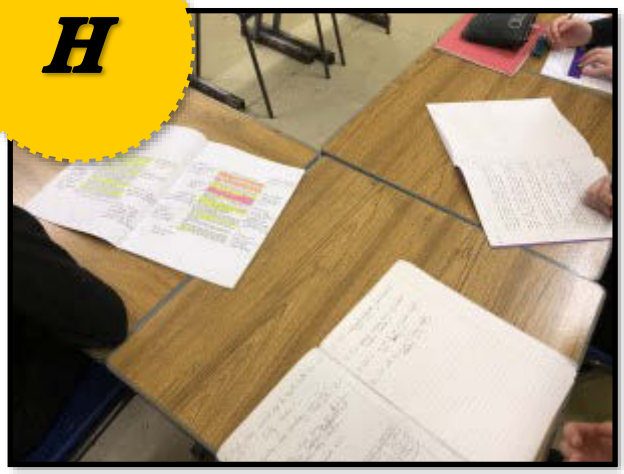

What will I learn?

The course provides learners with the opportunity to develop the skills of listening, talking, reading and writing in order to understand and use language. Building on literacy skills, learners develop understanding of the complexities of language, including through the study of a wide range of texts, and develop high levels of analytical thinking and understanding of the impact of language.

The course consists of 2 units:

- English: Analysis and Evaluation - develop listening and reading skills
- English: Creation and Production - develop talking and writing skills in a range of contexts

How will I learn?

Learning will take place through a study of literature in different genres including drama, prose fiction, prose non-fiction, poetry and film and television drama. This literature will include Scottish texts. Learners will develop close reading skills through the study of non-fiction texts; develop the skills to create a range of non-fiction and fiction texts; and take part in regular group discussion to develop listening and talking skills.

Higher English internal assessments:

- Regular assessments will take place throughout the year to allow staff to monitor progress

How will I be assessed?

Portfolio – 30 % of overall grade

- 2 writing pieces, one broadly discursive and one creative/reflective. Learners will prepare their pieces over a period of time.

Exam – 70% of overall grade:

- Paper 1 – Reading for Understanding, Analysis and Evaluation (30%). Learners will answer questions on one unseen non-fiction text.
- Paper 2 – Critical Reading (40%). This section has two parts. In part 1 learners will answer questions on a Scottish text. In part 2 learners will write one critical essay on their chosen text from one of the following genres: drama, prose, poetry, film and TV drama or language.

Career Opportunities

English is a valuable entry subject for university study. Language and literacy are of major importance and allow pupils access to an incredible array of future careers because the ability to express ourselves clearly and communicate effectively are key in every area of employment. Traditional careers linked to English include advertising, business and enterprise, customer service, computing, journalism, law, libraries, medicine, media and broadcasting, marketing, museums and heritage, politics, psychology, social media, sales, teaching, travel and tourism, writing, web design and many more.

English

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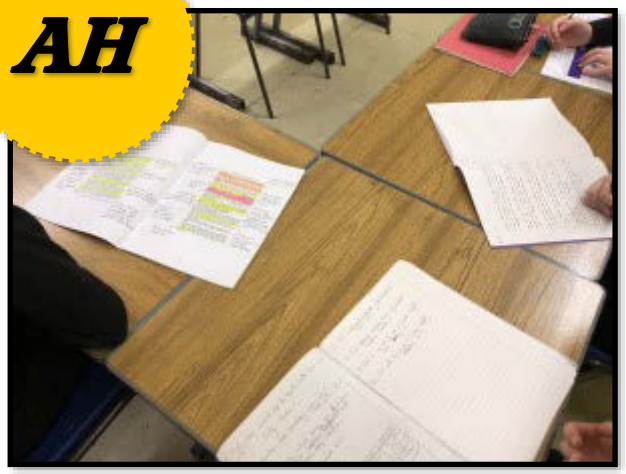
AH



What will I learn?

Learners will develop complex language skills, interpret complex literary forms and sophisticated language. The course
fosters an in-depth appreciation of complex and sophisticated language, and of a wide range of literature and texts in different genres. This enables learners to access their own cultural heritage and history, as well as the culture and history of others.

The Course is made up of two mandatory Units:
Analysis and Evaluation of Literary Texts

- analysis and evaluation of a wide range of complex and sophisticated literary texts

Creation and Production

- opportunities to create a range of complex and sophisticated texts, as appropriate to different purposes and audiences

How will I learn?

Learners have the opportunity to personalise their study; choices enable learners to encounter a wide range of texts in different genres and to produce sophisticated writing in chosen literacy forms. Learners will communicate, be critical thinkers, develop cultural awareness, and be creative.

How will I be assessed?

The Course assessment will take the form of:

- Two question papers through which learners will write a critical essay on drama, poetry, prose fiction or prose non-fiction, and undertake a textual analysis on drama, poetry, prose fiction or prose non-fiction, demonstrating an in-depth knowledge and understanding of complex and sophisticated literary text(s).

And:

- A portfolio, which will contain two pieces of writing
- A project-dissertation

Career Opportunities

English is a valuable entry subject for university study. Language and literacy are of major importance and allow pupils access to an incredible array of future careers because the ability to express ourselves clearly and communicate effectively are key in every area of employment. Traditional careers linked to English include advertising, business and enterprise, customer service, computing, journalism, law, libraries, medicine, media and broadcasting, marketing, museums and heritage, politics, psychology, social media, sales, teaching, travel and tourism, writing, web design and many more.

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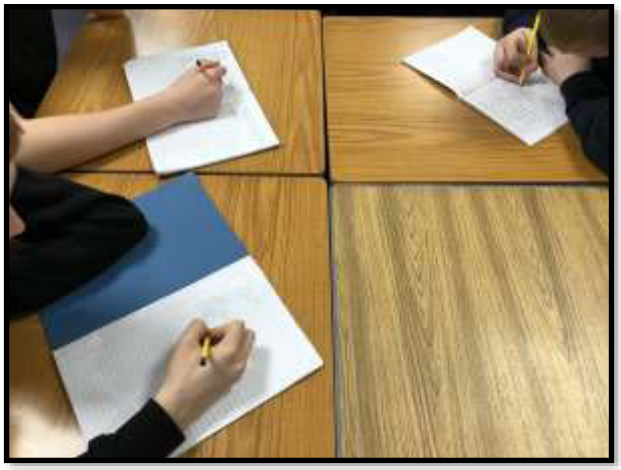
N4/5



What will I learn?

Learning a language enables learners to make connections with different people and their cultures, and to play a fuller part as global citizens. The French course enables learners to communicate, be critical thinkers, develop cultural awareness, and be creative. Through the contexts of society, learning, employability and culture learners will have opportunities to extend their skills in applying knowledge of language, planning and research.

The N4 course consists of 3 units:

- Understanding Language – develop reading and listening
- Using Language – develop talking and writing
- Added Value Unit – research a chosen topic in French

The N5 course consists of 2 units:

- Understanding Language – develop reading and listening
- Using Language – develop talking and writing

How will I learn?

Learners will use different media including IT for learning and communication and increasingly develop independent learning. The topics and materials studied come from a variety of sources including French magazines, online articles, songs and websites. There will be a variety of individual, pair and group tasks such as role-plays, dialogues and presentations.

How will I be assessed?

N4 Assessment

- All Units are internally assessed, there is no external examination

N5 Assessment

Units are externally assessed by the SQA or are controlled assessments in school

- SQA exam paper 1 – Reading and Writing (50 marks)
- SQA exam Paper 2 – Listening (20 marks)
- Assignment - Learners will produce a piece of writing (120-200 words) in French (20 marks)
- Performance – talking presentation and conversation with the teacher (30 marks)

Career Opportunities

Languages are highly valued by employers and further and higher education. French is used in many international organisations, such as NATO, the UN, EU institutions, and the World Trade Organisation. It is considered the international language of law and diplomacy. Possible careers include travel and tourism, hospitality, translator/interpreter, law, medicine, finance, engineering, business and enterprise, international organisations, media and broadcasting, marketing and sales, retail, politics, diplomacy, social media, teaching and so on…

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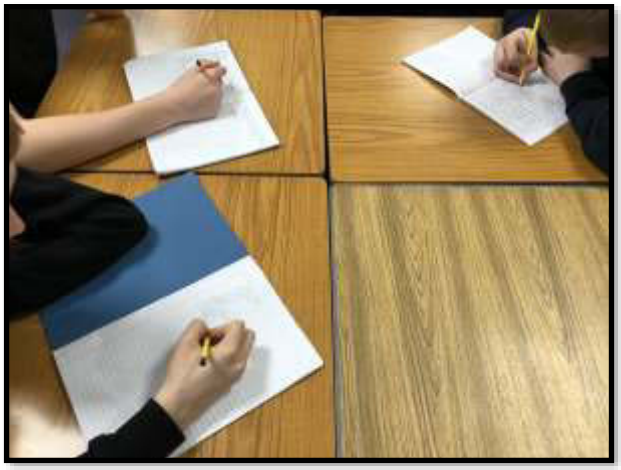

What will I learn?

Higher French enables learners to read, listen, talk and write in French, and to understand and use French. Learners also develop language skills of translation, and apply knowledge and understanding of French. Learners will have the opportunity to develop their knowledge and understanding of detailed and complex language in the contexts of society, learning, employability, and culture.

The Higher course consists of 2 units:

- Understanding Language - develop and extend reading and listening skills
- Using Language - develop and extend talking and writing skills

How will I learn?

Learners will use different media including IT for learning and communication and increasingly develop independent learning. The topics and materials studied come from a variety of sources including French magazines, online articles, songs and websites. There will be a variety of individual, pair and group tasks such as role-plays, dialogues and presentations.

How will I be assessed?

Regular assessments will take place throughout the year to allow staff to monitor progress at this level. Units are externally assessed by the SQA or are controlled assessments in school

- SQA exam Paper 1 – Reading and Writing (50 marks)
- SQA exam Paper 2 – Listening (20 marks)
- Assignment - Learners will produce a piece of writing (200-250 words) in French (20 marks)
- Performance – talking presentation and conversation with the teacher (30 marks)

Career Opportunities

Languages are highly valued by employers and further and higher education. French is used in many international organisations, such as NATO, the UN, EU institutions, and the World Trade Organisation. It is considered the international language of law and diplomacy. Possible careers include travel and tourism, hospitality, translator/interpreter, law, medicine, finance, engineering, business and enterprise, international organisations, media and broadcasting, marketing and sales, retail, politics, diplomacy, social media, teaching and so on…

SP Mathematics

Application of Mathematics

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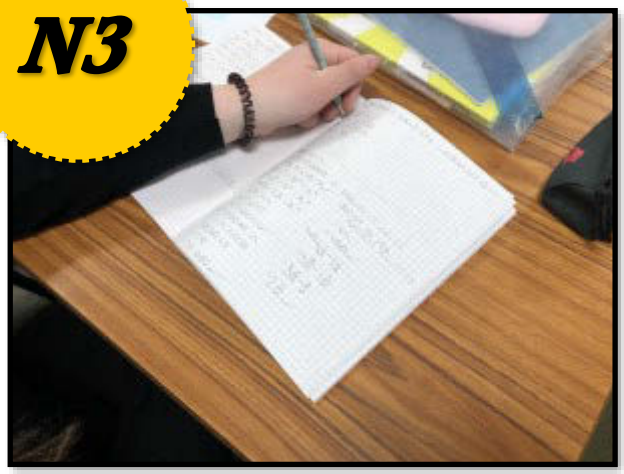
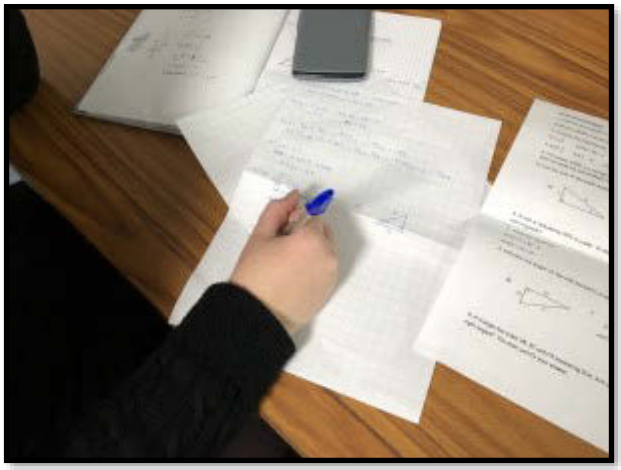
N3





What will I learn?

Manage Money and Data
In this Unit pupils will apply their maths and numeracy skills to work with money and data in real-life contexts. They will learn about percentages, budgeting and saving money, considering how much money is earned and different methods of saving. They will also learn how to read and draw different types of graphs in real-life contexts.

Shape, Space and Measures
In this Unit pupils will apply their maths and numeracy skills to work with different shapes and methods of measuring in real-life contexts. They will learn to work with lengths, weights, areas and volumes, changing measurements between different units. They will also learn how to continue patterns and give and follow directions set in real-life contexts.

Numeracy
In this Unit pupils will apply their maths and numeracy skills to complete number calculations in real-life contexts. They will learn how to solve number problems, including those with fractions, percentages and rounding to get an accurate answer.

How will I learn?

In class pupils will learn through individual and group work, practicing new skills so they can use them easily. On doing this they will get the chance to combine these skills in real life scenarios and problem solving. Homework will also be used to practise new, and existing, skills, and allow pupils the chance to show what they have learnt.

How will I be assessed?

Pupils will sit a test at the end of each Unit. All of these must be passed to gain a full SQA course award.

Career Opportunities

Maths is a skill used by everyone in everyday life and is used in many jobs including Financial Services, Engineering, Transport, construction, Science, Retail, Customer Services, Tourism, catering, Healthcare, Manufacturing, Administration, ICT Publishing, Marketing, Advertising, Armed Forces, Emergency services, Working with animals, Teaching, Child care, and many, many more.

SP Mathematics

Application of Mathematics

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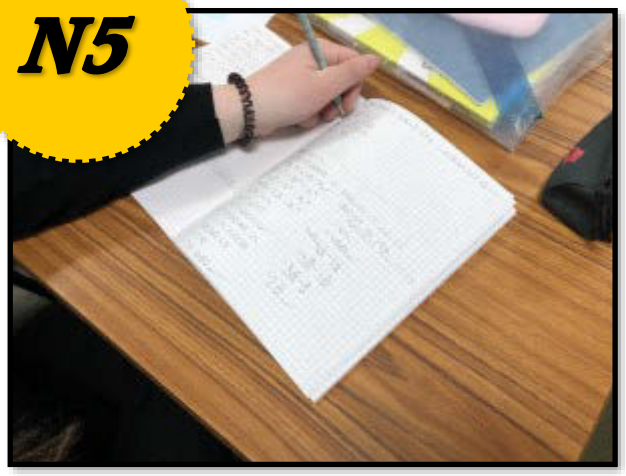
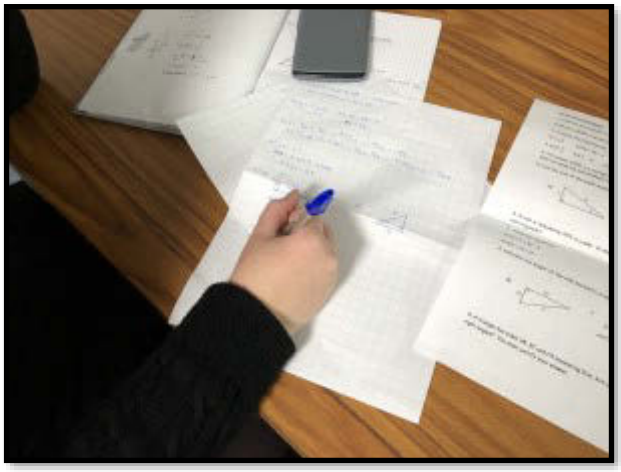
N5





What will I learn?

Geometry and Measure
In this Unit pupils will cover the use of mathematical ideas and valid strategies applied to geometry and measurement in real-life contexts. This includes analysing and using geometry and measures to determine and justify solutions.

Managing Finance and Statistics
In this Unit pupils will cover the use of mathematical ideas and valid strategies applied to managing finance and statistics in real-life contexts. This includes analysing financial positions, budgeting, organising and presenting data to justify solutions and/or draw conclusions.

Numeracy
In this Unit pupils will continue to develop their numerical and information handling skills to solve real-life problems involving number, money, time and measurement, graphical data and probability. Learners will use their solutions to make and justify decisions.

How will I learn?

In class pupils will learn through individual and group work, practicing new skills so they can use them easily. On doing this they will get the chance to combine these skills in real life scenarios and problem solving. Homework will also be used to practise new, and existing, skills, and allow pupils the chance to show what they have learnt.

How will I be assessed?

Pupils need to sit and pass the external SQA exam in May to gain a course award. This will be made up of 2 papers, a calculator and a non-calculator paper. Pupils can opt not to sit the SQA exam in May, instead be certificated for the Units only. For this to happen they will need to have sat and passed all 3 Unit Assessments during the course of the year.

Career Opportunities

Maths is a skill used by everyone in everyday life and is used in many jobs including Financial Services, Engineering, Transport, construction, Science, Retail, Customer Services, Tourism, catering, Healthcare, Manufacturing, Administration, ICT Publishing, Marketing, Advertising, Armed Forces, Emergency services, Working with animals, Teaching, Child care, and many, many more.

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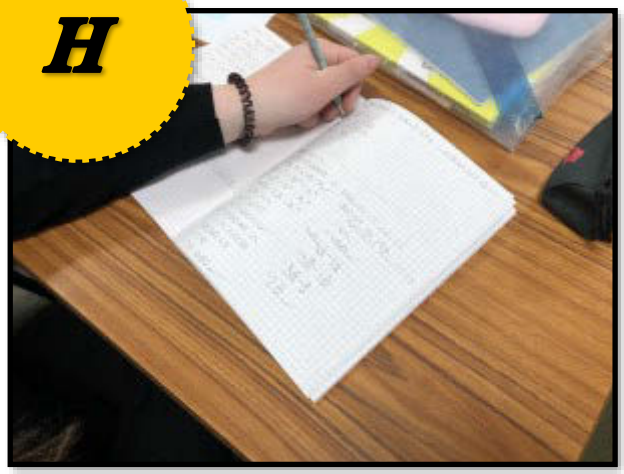

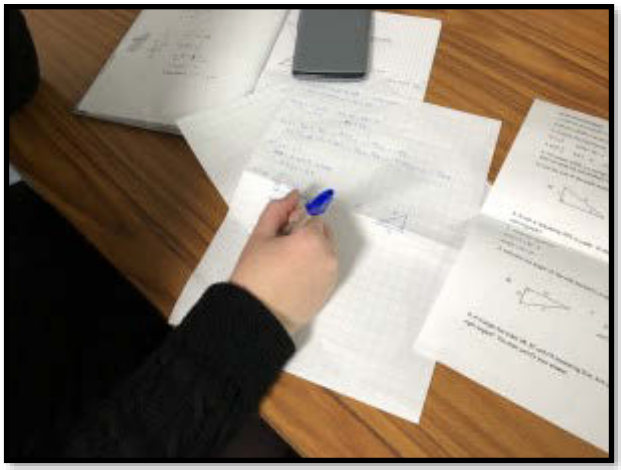

What will I learn?

The course builds on the skills covered in the National 5 Applications of Mathematics course, enhancing pupils' critical and logical thinking so that they can interpret, analyse and critically appraise statistical and mathematical information; simplify and solve problems; assess risk; and make informed decisions.

It aims to develop skills directly applicable to workplace environments, including:

- Mathematical Modelling in a given context, using software effectively in calculations that produce informative numerical and visual outputs.
- Applying statistical skills to basic probability and data analysis/presentation, including linear modelling to determine correlation and testing hypotheses.
- Finance to calculate the value of monetary payments relating to personal financial products and financial planning skills.
- Planning and Decision Making included in project planning, using systematic methods to identify critical activities and critical paths in a project.

How will I learn?

In class pupils will learn through individual and group work, practicing new skills so they can use them easily. On doing this they will get the chance to combine these skills in real life scenarios and problem solving. Homework will also be used to practise new, and existing, skills, and allow pupils the chance to show what they have learnt.

How will I be assessed?

Pupils need to sit and pass the external SQA exam in May and complete a project to gain a course award. The SQA exam will be made up of 2 papers, a calculator and a non-calculator paper. Pupils can opt not to sit the SQA exam in May, instead be certificated for the Units only. For this to happen they will need to have sat and passed all 3 Unit Assessments during the course of the year.

Career Opportunities

Maths is a skill used by everyone in everyday life and is used in many jobs including Financial Services, Engineering, Transport, construction, Science, Retail, Customer Services, Tourism, catering, Healthcare, Manufacturing, Administration, ICT Publishing, Marketing, Advertising, Armed Forces, Emergency services, Working with animals, Teaching, Child care, and many, many more.

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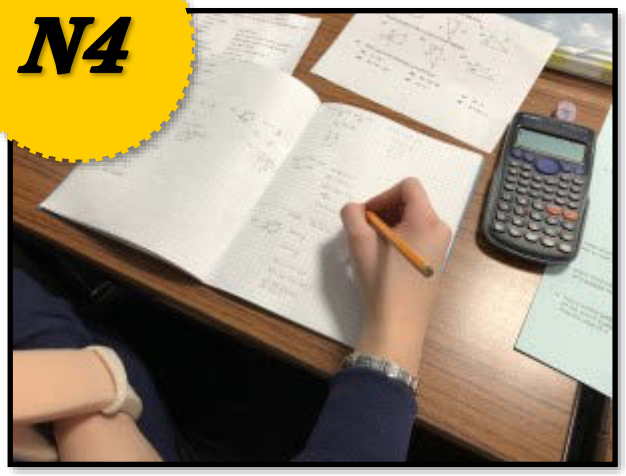
N4



What will I learn?

Expressions and Formulae
In this Unit pupils will expand their algebra skills, simplifying expressions, working with brackets, creating and substituting into expressions and formulae. They will also learn to calculate perimeters, areas and volumes, of different 2D and 3D shapes, as well as drawing and understanding patterns with rotational symmetry. To complete this unit, they will learn how to compare statistics using averages, graphs and probability.

Relationships
In this Unit pupils will continue to expand their algebra skills, focusing on straight line equations, solving them and rewriting them in different ways. They will also learn to use Pythagoras' Theorem, Trigonometry, Scale Factors, and angle facts linked to parallel lines and the circle. To complete this unit, they will learn how to draw Scatter Graphs and draw the line of best fit of a set of data.

Numeracy
In this Unit pupils will apply their maths and numeracy skills to complete number calculations in real-life contexts. They will learn how to solve number problems, including those with negative numbers, fractions, percentages, proportion, ratio and rounding to get an accurate answer. They will also learn how to calculate time differences, distances, speed and change money between different currencies. To complete this unit, they will learn how to read and draw different types of graphs, read scales and calculate probability.

How will I learn?

In class pupils will learn through individual and group work, practicing new skills so they can use them easily. On doing this they will get the chance to combine these skills in real life scenarios and problem solving. Homework will also be used to practise new, and existing, skills, and allow pupils the chance to show what they have learnt.

How will I be assessed?

Pupils will sit a test at the end each Unit. All of these must be passed, along with the calculator and non-calculator Added Value Assessments at the end of the course, to gain a full course award.

The Added Value Assessment tests the pupils' ability to integrate and apply the skills acquired in the 3 of the Units in unfamiliar situations.

Career Opportunities

Maths is a skill used by everyone in everyday life and is used in many jobs including Financial Services, Engineering, Transport, construction, Science, Retail, Customer Services, Tourism, catering, Healthcare, Manufacturing, Administration, ICT Publishing, Marketing, Advertising, Armed Forces, Emergency services, Working with animals, Teaching, Child care, and many, many more.

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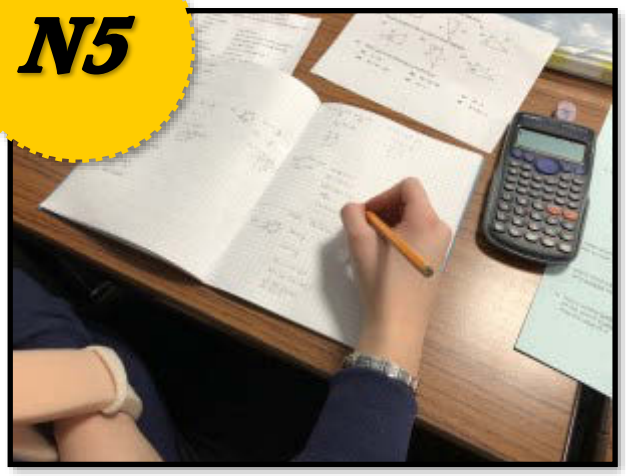
N5



What will I learn?

Expressions and Formulae
In this Unit pupils will expand their algebra skills, simplifying expressions by removing brackets, factorising, completing the square and working with algebraic fractions. They will also learn to calculate the gradient of a straight line, arcs lengths and the area of sectors in a circle. To complete this unit, they will learn how to work with, and simplify, surds and indices.

Relationships
In this Unit pupils will continue expand their algebra skills, finding the equation of straight lines, solving equations and inequations, and working with quadratics. They will build on their Trigonometry skills, focusing on trigonometric graphs and equations. To complete this unit, they will learn how to find missing length & angles, and use scale factors to work with similar shapes.

Applications
In this Unit pupils will continue to work on expanding their use of Trigonometry, focusing to use the Sine Rule and Cosine Rule with Bearings. They will also learn how to work with Vectors, 3D coordinates, Percentage appreciations & depreciation, and more complex calculations with fraction and mixed numbers. To complete this unit, they will learn how to read and draw Boxplots, and use the Equation of a Straight line to find connections between sets of data.

How will I learn?

In class pupils will learn through individual and group work, practicing new skills so they can use them easily. On doing this they will get the chance to combine these skills in real life scenarios and problem solving. Homework will also be used to practise new, and existing, skills, and allow pupils the chance to show what they have learnt.

How will I be assessed?

Pupils need to sit and pass the external SQA exam in May to gain a course award. This will be made up of 2 papers, a calculator and a non-calculator paper. Pupils can opt not to sit the SQA exam in May, instead be certificated for the Units only. For this to happen they will need to have sat and passed all 3 Unit Assessments during the course of the year.

Career Opportunities

Maths is a skill used by everyone in everyday life and is used in many jobs including Financial Services, Engineering, Transport, construction, Science, Retail, Customer Services, Tourism, catering, Healthcare, Manufacturing, Administration, ICT Publishing, Marketing, Advertising, Armed Forces, Emergency services, Working with animals, Teaching, Child care, and many, many more.

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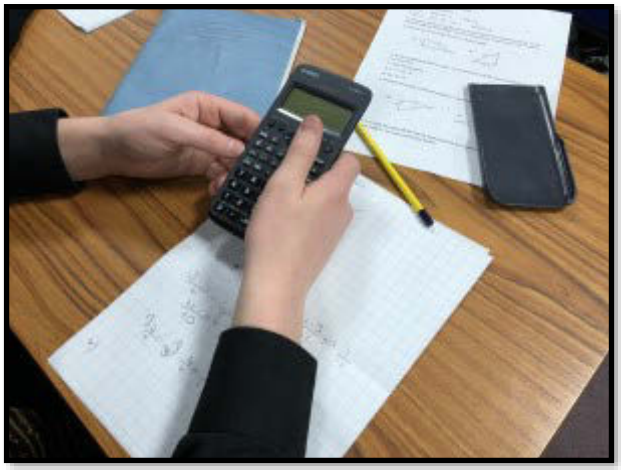

What will I learn?

The course builds on the skills covered in the National 5 Mathematics course, focusing on Algebra, Trigonometry and introducing Calculus for the first time.

Algebra topics covered include the Straight Line, Sequences, Recurrence Relations, Equation of the Circle, Logarithmic and Exponential Functions.

Trigonometry topics covered include Compound and Multiple Angles, working in Radians, the Wave Function and more complex Equations.

Calculus topics covered include learning how to Differentiate and Integrate, using these skills to investigate the nature and properties of functions, and calculate definite integrals.

How will I learn?

In class pupils will learn through individual and group work, practicing new skills so they can use them easily. On doing this they will get the chance to combine these skills in real life scenarios and problem solving. Homework will also be used to practise new, and existing, skills, and allow pupils the chance to show what they have learnt.

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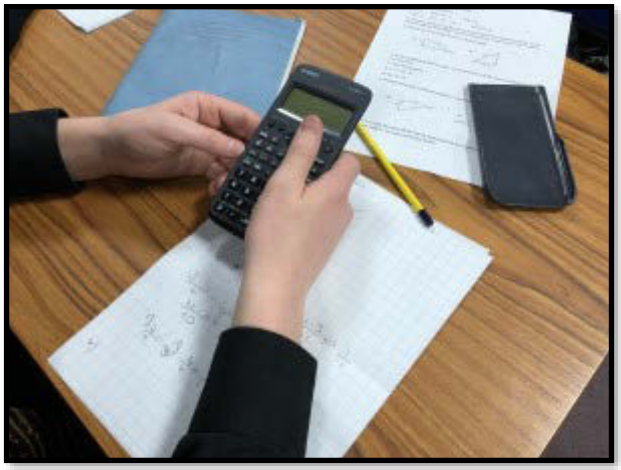
AH



What will I learn?

The course builds on the skills covered in the Higher Mathematics course, focusing on Algebra, Calculus, Geometry, and Proofs. The importance of logical thinking and proof is emphasised throughout.

Algebra topics covered include Partial Fractions, Binomial Theorem, Complex Numbers, Sequences & Series, Matrices and Graphs of Functions.

Calculus topics covered include more complex Differential and Integral Calculus, including Differential Equations.

Geometry topics covered include Vectors, the geometry of Complex Numbers, and Proof by Induction, Counter-Example, Direct Proof, Exhaustion, Contradiction and Contrapositive.

How will I learn?

Lesson delivery will be similar to that of a lecture. Pupils will then have the opportunity to learn and practice the skills covered through individual work and discussion, so they can use them easily. Homework will also be used to practise new, and existing skills, and allow pupils the chance to show what they have learned.

How will I be assessed?

Pupils need to sit and pass the external SQA exam in May to gain a course award. This will be made up of 2 papers, a calculator and a non-calculator paper. Pupils can opt not to sit the SQA exam in May, instead be certificated for the Units only. For this to happen they will need to have sat and passed 3 Unit Assessments during the course of the year.

Career Opportunities

Maths is a skill used by everyone in everyday life and is used in many jobs including Financial Services, Engineering, Transport, construction, Science, Retail, Customer Services, Tourism, catering, Healthcare, Manufacturing, Administration, ICT Publishing, Marketing, Advertising, Armed Forces, Emergency services, Working with animals, Teaching, Child care, and many, many more.

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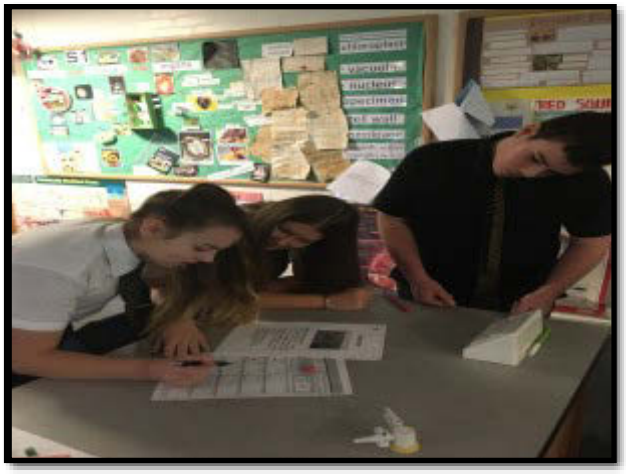
N3



What will I learn?

The National 3 Biology Course develops the concepts of biodiversity, interdependence, body systems and cells and inheritance. Learners recognise the impact biology makes on their lives, on the lives of others, on the environment and on society.

It comprises of three units:

Cell Biology

The key areas covered are cells; DNA; DNA profiling, photosynthesis; microorganisms; controlling microorganism growth.

Multicellular Organisms

The key areas covered are organs and organ systems; monitoring health and improving quality of life; body defences and role of vaccines; fertilisation, embryonic development and risks to embryo.

Life on Earth

The key areas covered are habitats and biodiversity; different types of chemicals in agriculture.

How will I learn?

Learners will develop and apply their knowledge of Biology by working collaboratively to carry out experiments, research tasks and presentations. This will enable them to develop their scientific inquiry, investigative and analytical thinking skills in a biological context. They will also have opportunities to discuss and debate the moral and ethical implications of current biological issues.

There will be opportunities for the development of literacy and numeracy skills and where appropriate, aspects of health and wellbeing and ICT will be included.

How will I be assessed?

Learners will be required to pass the SQA Unit Assessments for each of the three units. They will also be required to carry out a practical investigation as part of their assessment.

There is no external exam at National 3 level.

Career Opportunities

There are many and varied career opportunities for students of Biology including research, teaching, medicine, dentistry, nursing, midwifery, physiotherapy, occupational health, pharmacy, sport sciences, food industry, veterinary medicine, zoology/animal care, forensics, hairdressing, farming, renewable energy, etc. The skills developed in Science subjects can also lead to careers in many other areas.

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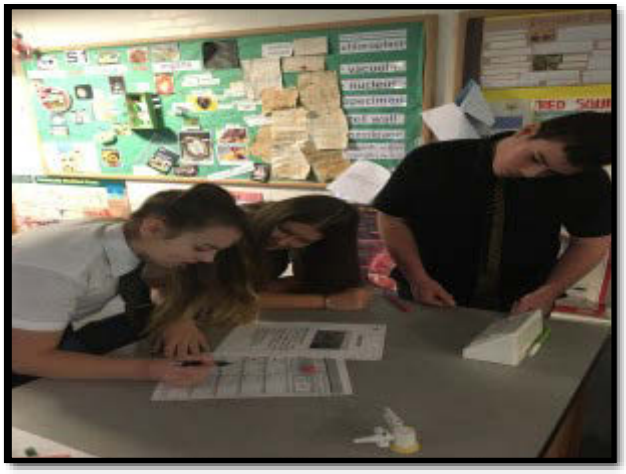
N4



What will I learn?

The National 4 Biology Course covers major areas of biology including cells, organisms and ecosystems. The key areas of biodiversity, interdependence, body systems and cells and inheritance are developed through the Course.

It comprises of four units:

Cell Biology

The key areas covered are: cell division; DNA; genes and chromosomes; therapeutic use of cells; enzymes; microorganisms; photosynthesis; respiration; controversial biological procedures.

Multicellular Organisms

The key areas covered are: sexual and asexual reproduction; propagating and growing plants; commercial use of plants; genetic information, growth and development of different organisms; biological actions in response to internal and external changes to maintain stable body conditions.

Life on Earth

The key areas covered are how animal and plants species depend on each other; biodiversity, nitrogen cycle, fertilisers; adaptations for survival; learned behaviour in response to stimuli linked to species survival.

Added Value Unit

In this Unit, learners will investigate a topic in depth, consider its impact on the environment and/or society, and present their information in the form of a written report or poster.

How will I learn?

Learners will develop and apply their knowledge of Biology by working collaboratively to carry out experiments, research tasks and presentations. This will enable them to develop their scientific inquiry, investigative and analytical thinking skills in a biological context. They will also have opportunities to discuss and debate the moral and ethical implications of current biological issues.

There will be opportunities for the development of literacy and numeracy skills and where appropriate, aspects of health and wellbeing and ICT will be included.

How will I be assessed?

Learners will be required to pass the SQA Unit Assessments for each of the three theory units. They will also be required to carry out a practical investigation as part of their assessment. The written evidence for the Added Value Unit will also be assessed internally.

There is no external exam at National 4 level.

Career Opportunities

There are many and varied career opportunities for students of Biology including research, teaching, medicine, dentistry, nursing, midwifery, physiotherapy, occupational health, pharmacy, sport sciences, food industry, veterinary medicine, zoology/animal care, forensics, hairdressing, farming, renewable energy, etc. The skills developed in Science subjects can also lead to careers in many other areas.

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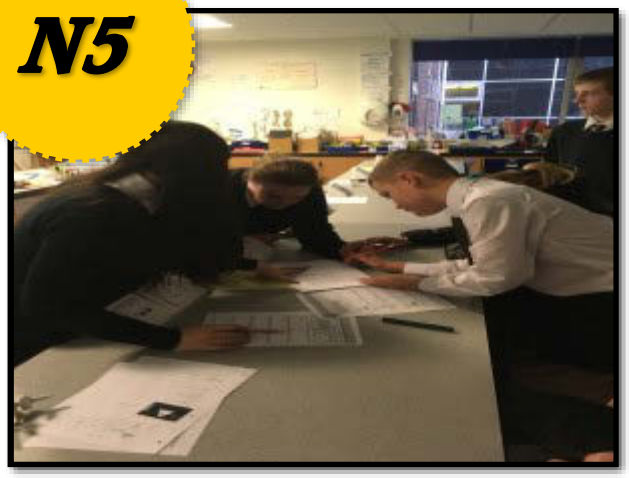
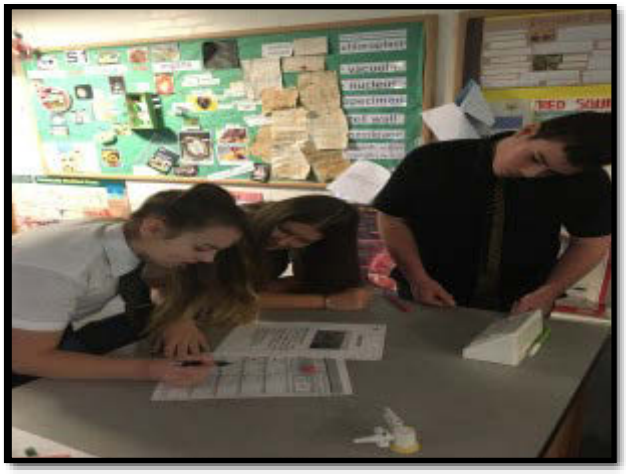
N5





What will I learn?

The N5 Biology course covers major areas of biology ranging from cellular to whole organism and includes the study of ecosystems. The focus on cellular level processes leads to an understanding of the importance and roles of the cell. By comparing the processes in multicellular plants and animals, candidates investigate increasing levels of complexity. The key areas of biodiversity and interdependence are covered, along with the processes leading to evolution as well as food security and ethical issues.

The course content includes the following areas of biology:

Cell biology

The key areas covered are: cell structure; transport across cell membranes; DNA and the production of proteins; proteins; genetic engineering; respiration.

Multicellular organisms

The key areas covered are: producing new cells; control and communication; reproduction; variation and inheritance; transport systems — plants; transport systems — animals; absorption of materials.

Life on Earth

The key areas covered are: ecosystems; distribution of organisms; photosynthesis; energy in ecosystems; food production; evolution of species.

How will I learn?

Learners will develop and apply their knowledge of Biology by working collaboratively to carry out experiments, research tasks and presentations. This will enable them to develop their scientific inquiry, investigative and analytical thinking skills in a biological context. They will also have opportunities to discuss and debate the moral and ethical implications of current biological issues.

There will be opportunities for the development of literacy and numeracy skills and where appropriate, aspects of health and wellbeing and ICT will be included.

How will I be assessed?

Question Paper (100 marks) – accounts for 80% of the total marks for external assessment. The question paper has two sections: Section 1 contains multiple-choice questions and has 25 marks. Section 2 contains structured and extended response questions and has 75 marks.

Course Assignment (20 marks) – The assignment requires learners to research a topic in Biology, carry out relevant experimental work and prepare a report on their findings. It accounts for 20% of the total marks for external assessment.

Career Opportunities

There are many and varied career opportunities for students of Biology including research, teaching, medicine, dentistry, nursing, midwifery, physiotherapy, occupational health, pharmacy, sport sciences, food industry, veterinary medicine, zoology/animal care, forensics, hairdressing, farming, renewable energy, etc. The skills developed in Science subjects can also lead to careers in many other areas.

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H

What will I learn?

The Higher Biology course allows candidates to develop deeper understanding of the underlying themes of biology. The scale of topics ranges from molecular through to whole organism and beyond. Candidates develop an understanding of DNA and how the structure of the genome leads to the basis of evolution and biodiversity. Genomics is studied as one of the major scientific advances in recent times. Metabolic pathways and their control are considered along with the conditions in which organisms survive and their means of coping with these. The interdependence and complex interactions between organisms is explored and sustainable food production, with the fundamental process of photosynthesis at its core, is investigated.

The course content includes the following areas of biology:

<u>DNA and the genome</u>

The key areas covered are structure of DNA; replication of DNA; gene expression; cellular differentiation; the structure of the genome; mutations; evolution; genomic sequencing.

<u>Metabolism and survival</u>

The key areas covered are metabolic pathways; cellular respiration; metabolic rate; metabolism in conformers and regulators; metabolism and adverse conditions; environmental control of metabolism; genetic control of metabolism.

<u>Sustainability and interdependence</u>

The key areas covered are food supply, plant growth and productivity; plant and animal breeding; crop protection; animal welfare; symbiosis; social behaviour; components of biodiversity; threats to biodiversity.

How will I learn?

Learners will develop and apply their knowledge of Biology by working collaboratively to carry out experiments, research tasks and presentations. This will enable them to develop their scientific inquiry, investigative and analytical thinking skills in a biological context. They will also have opportunities to discuss and debate the moral and ethical implications of current biological issues.

There will be opportunities for the development of literacy and numeracy skills and where appropriate, aspects of health and wellbeing and ICT will be included.

How will I be assessed?

Question Paper (120 marks) – accounts for 80% of the total marks for external assessment. Paper 1 contains multiple-choice questions and has 25 marks. Paper 2 contains structured and extended response questions and has 95 marks.

Course Assignment (20 marks) – The assignment requires learners to research a topic in Biology, carry out relevant experimental work and prepare a report on their findings. It accounts for 20% of the total marks for external assessment.

Career Opportunities

There are many and varied career opportunities for students of Biology including research, teaching, medicine, dentistry, nursing, midwifery, physiotherapy, occupational health, pharmacy, sport sciences, food industry, veterinary medicine, zoology/animal care, forensics, hairdressing, farming, renewable energy, etc. The skills developed in Science subjects can also lead to careers in many other areas.

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AH

What will I learn?

The Advanced Higher Biology Course is based on integrative ideas and unifying principles of modern biological science. The Course covers key aspects of life science at the molecular scale and extends to aspects of the biology of whole organisms that are among the major driving forces of evolution. Learners develop a sound theoretical understanding and practical experience of experimental investigative work in biological science.

The course content includes the following areas of biology:

Cells and proteins

The key areas covered are laboratory techniques for biologists; proteins; membrane proteins; communication and signalling; protein control of cell division.

Organisms and evolution

The key areas covered are field techniques for biologists; evolution; variation and sexual reproduction; sex and behaviour; parasitism.

Investigative biology

The key areas covered are scientific principles and process; experimentation; reporting and critical evaluation of biological research.

How will I learn?

The course encourages candidates to take more responsibility for their learning. They will be taken through the course by the class teacher using a variety of resources. This provides good preparation for candidates moving on to study in further or higher education. It gives them further experience in independent investigative work. Candidates improve their scientific literacy by designing and carrying out their own investigation, analysing and evaluating scientific publications and media reports, and producing scientific reports and communications. Opportunities to generate new ideas when planning and designing investigations and experiments also develops candidates' creativity.

How will I be assessed?

Question Paper (100 marks) – accounts for 75% of the total marks for external assessment. Section 1 contains multiple-choice questions and has 20 marks. Section 2 contains structured and extended response questions and has 80 marks.

Course Project (30 marks) – The project requires learners to research a topic in Biology, carry out relevant experimental work and prepare a report on their findings. It accounts for 25% of the total marks for external assessment.

Career Opportunities

There are many and varied career opportunities for students of Biology including research, teaching, medicine, dentistry, nursing, midwifery, physiotherapy, occupational health, pharmacy, sport sciences, food industry, veterinary medicine, zoology/animal care, forensics, hairdressing, farming, renewable energy, etc. The skills developed in Science subjects can also lead to careers in many other areas.

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N3

What will I learn?

The National 3 Chemistry Course enables learners to develop a basic knowledge and understanding of chemistry. Learners also develop an understanding of chemistry's role in scientific issues and relevant applications of chemistry in society and the environment.

It comprises of three units:

Chemical Changes and Structure

In this unit the topics covered are chemical structure; rates of reaction; acids and bases.

Nature's Chemistry

In this unit the topics covered are fuels and energy; plants for food and oils; plants for medicines.

Chemistry in Society

In this unit the topics covered are metals, corrosion and batteries; plastics, ceramics and novel materials; properties of solutions; chemical analysis and the chemical industry.

How will I learn?

Learners will develop and apply their knowledge of Chemistry by working collaboratively to carry out experiments, research tasks and presentations. This will enable them to develop their scientific inquiry, investigative and analytical thinking skills in a chemical context. They will also have opportunities to discuss and debate the moral and ethical implications of current chemical issues.

There will be opportunities for the development of literacy and numeracy skills and where appropriate, aspects of health and wellbeing and ICT will be included.

How will I be assessed?

Learners will be required to pass the SQA Unit Assessments for each of the three units. They will also be required to carry out a practical investigation as part of their assessment.

There is no external exam at National 3 level.

Career Opportunities

There are many and varied career opportunities for students of Chemistry including research, teaching, medicine, dentistry, pharmacy, engineering, food industry, veterinary medicine, forensics, oil/gas/ nuclear industries, pharmaceutical industry, environmental monitoring, alternative energy, hairdressing, farming, technology, etc. The skills developed in Science subjects can also lead to careers in many other areas.

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N4

What will I learn?

The National 4 Chemistry Course covers a variety of contexts relevant to chemistry's impact on the environment and society through the chemistry of the Earth's resources, the chemistry of everyday products and environmental analysis. The key areas of atomic structure, bonding and chemical equations are integrated throughout the course.

It comprises of four units:

Chemical Changes and Structure

In this unit the topics covered are atomic structure and bonding; energy changes of chemical reactions; acids and bases.

Nature's Chemistry

In this unit the topics covered are fuels and hydrocarbons; carbohydrates and consumer products; plants for medicines.

Chemistry in Society

In this unit the topics covered are metals and alloys; electrochemical cells and batteries; corrosion; polymers and polymerisation; fertilisers; nuclear chemistry; chemical analysis.

Added Value Unit

In this Unit, learners will investigate a topic in depth, consider its impact on the environment and/or society, and present their information in the form of a written report or poster.

How will I learn?

Learners will develop and apply their knowledge of Chemistry by working collaboratively to carry out experiments, research tasks and presentations. This will enable them to develop their scientific inquiry, investigative and analytical thinking skills in a chemical context. They will also have opportunities to discuss and debate the moral and ethical implications of current chemical issues.

There will be opportunities for the development of literacy and numeracy skills and where appropriate, aspects of health and wellbeing and ICT will be included.

How will I be assessed?

Learners will be required to pass the SQA Unit Assessments for each of the three theory units. They will also be required to carry out a practical investigation as part of their assessment. The written evidence for the Added Value Unit will also be assessed internally.

There is no external exam at National 4 level.

Career Opportunities

There are many and varied career opportunities for students of Chemistry including research, teaching, medicine, dentistry, pharmacy, engineering, food industry, veterinary medicine, forensics, oil/gas/ nuclear industries, pharmaceutical industry, environmental monitoring, renewable energy, hairdressing, farming, technology, etc. The skills developed in Science subjects can also lead to careers in many other areas.

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N5

What will I learn?

The National 5 Chemistry Course enables learners to develop and apply knowledge and understanding of chemistry. Learners also develop an understanding of chemistry's role in scientific issues and relevant applications of chemistry, including the impact these could make in society and the environment.

The course content includes the following areas of chemistry:

Chemical Changes and Structure

In this area, topics covered are: rates of reaction; atomic structure and bonding related to properties of materials; formulae and reacting quantities; acids and bases.

Nature's Chemistry

In this area, topics covered are: homologous series; everyday consumer products; energy from fuels.

Chemistry in Society

In this area, topics covered are: metals; plastics; fertilisers; nuclear chemistry; chemical analysis.

How will I learn?

Learners will develop and apply their knowledge of Chemistry by working collaboratively to carry out experiments, research tasks and presentations. This will enable them to develop their scientific inquiry, investigative and analytical thinking skills in a chemical context. They will also have opportunities to discuss and debate the moral and ethical implications of current chemical issues.

There will be opportunities for the development of literacy and numeracy skills and where appropriate, aspects of health and wellbeing and ICT will be included.

How will I be assessed?

Question Paper (100 marks) – accounts for 80% of the total marks for external assessment. Section 1 contains multiple-choice questions and has 25 marks. Section 2 contains structured and extended response questions and has 75 marks.

Course Assignment (20 marks) – The assignment requires learners to research a topic in Chemistry, carry out relevant experimental work and prepare a report on their findings. It accounts for 20% of the total marks for external assessment.

Career Opportunities

There are many and varied career opportunities for students of Chemistry including research, teaching, medicine, dentistry, pharmacy, engineering, food industry, veterinary medicine, forensics, oil/gas/ nuclear industries, pharmaceutical industry, environmental monitoring, renewable energy, hairdressing, farming, technology, etc. The skills developed in Science subjects can also lead to careers in many other areas.

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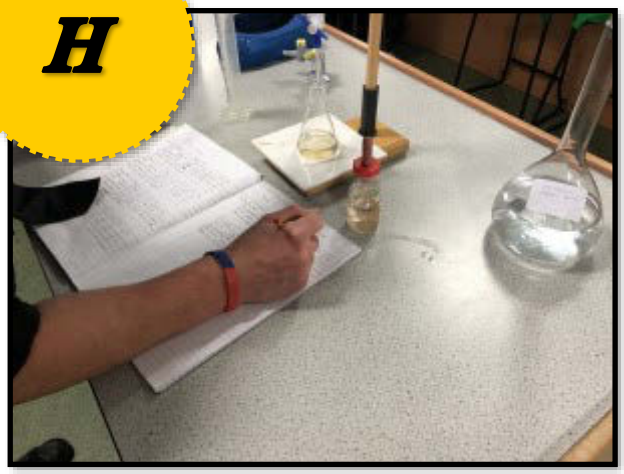

What will I learn?

This course allows candidates to acquire a deeper understanding of the central concepts of chemistry. Candidates gain an understanding of chemical bonding and intermolecular forces that allows them to predict the physical properties of materials. They apply a knowledge of functional groups and organic reaction types to solve problems in a range of diverse contexts. Candidates also learn important chemical concepts used to take a chemical process from the researcher's bench through to industrial production. The concept of the mole allows the quantities of reagents required to be calculated, and the quantity of products predicted. By studying energy, rates and equilibria, candidates can suggest how reaction conditions can be chosen to maximise the profitability of an industrial process. Candidates learn about industrial analytical chemistry techniques, such as volumetric analysis and chromatography.

The course content includes the following areas of chemistry:

Chemical changes and structure

In this area the topics covered are periodicity; structure and bonding; controlling the rate.

Nature's Chemistry

In this area, topics covered are systematic carbon chemistry; alcohols; carboxylic acids; esters; fats and oils; soaps; detergents and emulsions; proteins; oxidation of food; fragrances; skin care.

Chemistry in Society

In this area, topics covered are getting the most from reactants; oxidising and reducing agents; chemical energy; equilibria; chemical analysis.

How will I learn?

Learners will develop and apply their knowledge of Chemistry by working collaboratively to carry out experiments, research tasks and presentations. This will enable them to develop their scientific inquiry, investigative and analytical thinking skills in a chemical context. They will also have opportunities to discuss and debate the moral and ethical implications of current chemical issues.

There will be opportunities for the development of literacy and numeracy skills and where appropriate, aspects of health and wellbeing and ICT will be included.

How will I be assessed?

Question Paper (120 marks) – accounts for 80% of the total marks for external assessment. Paper 1 contains multiple-choice questions and has 25 marks. Paper 2 contains structured and extended response questions and has 95 marks.

Course Assignment (20 marks) – The assignment requires learners to research a topic in Chemistry, carry out relevant experimental work and prepare a report on their findings. It accounts for 20% of the total marks for external assessment.

Career Opportunities

There are many and varied career opportunities for students of Chemistry including research, teaching, medicine, dentistry, pharmacy, engineering, food industry, veterinary medicine, forensics, oil/gas/ nuclear industries, pharmaceutical industry, environmental monitoring, renewable energy, hairdressing, farming, technology, etc. The skills developed in Science subjects can also lead to careers in many other areas.

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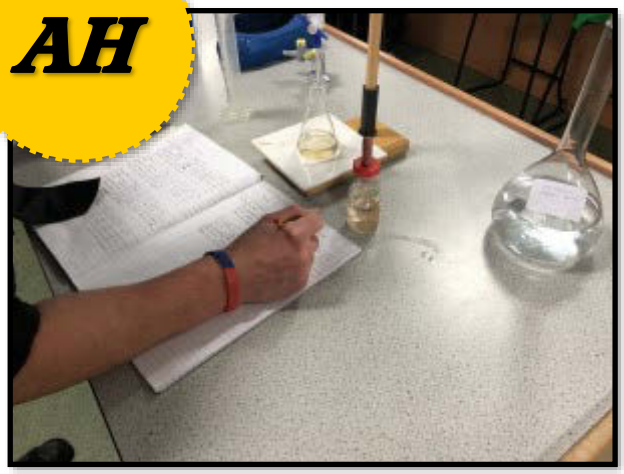

What will I learn?

This course allows candidates to develop a deep understanding of the nature of matter, from its most fundamental level to the macroscopic interactions driving chemical change. The Course builds on Higher Chemistry, continuing to develop the underlying theories of chemistry and the practical skills used in the chemistry laboratory. Learners develop the skills of independent study and thought that are essential in a wide range of occupations.

The course content includes the following areas of chemistry:

Inorganic chemistry

In this area the topics covered are electromagnetic radiation and atomic spectra; atomic orbitals, electronic configurations and the periodic table; transition metals.

Physical chemistry

In this area, topics covered are chemical equilibrium; reaction feasibility; kinetics.

Organic chemistry and instrumental analysis

In this area, topics covered are molecular orbitals; synthesis; stereochemistry; experimental determination of structure; pharmaceutical chemistry.

Researching chemistry

In this area, topics covered are common chemical apparatus; skills involved in experimental work; stoichiometric calculations; gravimetric analysis; volumetric analysis; practical skills and techniques.

How will I learn?

The course encourages candidates to take more responsibility for their learning. They will be taken through the course by the class teacher using a variety of resources. This provides good preparation for candidates moving on to study in further or higher education. It gives them further experience in independent investigative work. Candidates improve their scientific literacy by designing and carrying out their own investigation, analysing and evaluating scientific publications and producing scientific reports and communications. Opportunities to generate new ideas when planning and designing investigations and experiments also develops candidates' creativity.

How will I be assessed?

Question Paper (110 marks) – accounts for 75% of the total marks for external assessment. Section 1 contains multiple-choice questions and has 25 marks. Section 2 contains structured and extended response questions and has 85 marks.

Course Project (25 marks) – The project requires learners to research a topic in Chemistry, carry out relevant experimental work and prepare a report on their findings. It accounts for 25% of the total marks for external assessment.

Career Opportunities

There are many and varied career opportunities for students of Chemistry including research, teaching, medicine, dentistry, pharmacy, engineering, food industry, veterinary medicine, forensics, oil/gas/ nuclear industries, pharmaceutical industry, environmental monitoring, renewable energy, hairdressing, farming, technology, etc. The skills developed in Science subjects can also lead to careers in many other areas.

SP Science

Environmental Science

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N4

For S5/6 Students only

What will I learn?

The National 4 Environmental Science Course aims to develop an understanding of environmental issues. It provides a range of up-to-date topics relevant to the role of environmental science in society. Through the Course, learners will investigate key areas of the living environment, the Earth and its resources. It allows learners the opportunity to investigate sustainability and sustainable development.

It comprises of four units:

Living Environment

The key areas covered are: interdependence; adaptation for survival; the impact of population growth and natural hazards on biodiversity; the nitrogen cycle; the environmental impact of fertilisers.

Earth's Resources

The key areas covered are: the responsible use and conservation of non-renewable and renewable resources; the formation and use of fossil fuels; the derivation and uses of materials derived from crude oil; the risks and benefits of different energy sources, including those produced from plants; the carbon cycle and processes involved in maintaining the balance of gases in the air; the causes and implications of changes in the balance.

Sustainability

The key areas covered are: the sustainability of key natural resources and possible implications for human activity; the interaction between humans and the environment and the impact of human activity on an area; the role of agriculture in the production of food and raw material and its environmental impacts and sustainability; society's energy needs and the impact of developments in transport infrastructure in a selected area; and development of sustainable systems.

Added Value Unit

In this Unit, learners will investigate a topic in depth, consider its impact on the environment and/or society, and present their information in the form of a written report or poster.

How will I learn?

Learners will develop and apply their knowledge of Environmental Science by working collaboratively to carry out experiments, research tasks and presentations. This will enable them to develop their scientific inquiry, investigative and analytical thinking skills in an environmental context. They will also have opportunities to discuss and debate the moral and ethical implications of current environmental issues.

There will be opportunities for the development of literacy and numeracy skills and where appropriate, aspects of health and wellbeing and ICT will be included.

How will I be assessed?

Learners will be required to pass the SQA Unit Assessments for each of the three theory units. They will also be required to carry out a practical investigation as part of their assessment. The written evidence for the Added Value Unit will also be assessed internally.

There is no external exam at National 4 level.

Career Opportunities

There are many and varied career opportunities for students of Environmental Science including research, teaching, renewable energy, marine biology, conservation, waste management, water treatment, environmental monitoring, horticulture, etc. The skills developed in Science subjects can also lead to careers in many other areas.

SP Science

Environmental Science

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N5

For S5/6 Students only

What will I learn?

The National 5 Environmental Science Course aims to develop a scientific understanding of environmental issues. It provides a broad and up-to-date selection of ideas relevant to the role of environmental science in society. This develops an understanding of environmental issues and possible solutions to preventing or reversing environmental degradation, and of sustainable practices.
The course content includes the following areas of environmental science:

Living environment
The key areas covered are: investigating ecosystems and biodiversity; interdependence; human influences on biodiversity.

Earth's resources
The key areas covered are: an overview of Earth systems and their interactions; the geosphere; the hydrosphere; the biosphere; the atmosphere.

Sustainability
The key areas covered are: an introduction to sustainability; food; water; energy; waste management.

How will I learn?

Learners will develop and apply their knowledge of Environmental Science by working collaboratively to carry out experiments, research tasks and presentations. This will enable them to develop their scientific inquiry, investigative and analytical thinking skills in an environmental context. They will also have opportunities to discuss and debate the moral and ethical implications of current environmental issues.

There will be opportunities for the development of literacy and numeracy skills and where appropriate, aspects of health and wellbeing and ICT will be included.

How will I be assessed?

Question Paper (100 marks) – accounts for 80% of the total marks for external assessment. Section 1 contains restricted response questions and has 66 marks. Section 2 contains a case study and has 20 marks. Sections 3 contains extended response questions and has 14 marks.
Course Assignment (20 marks) – The assignment requires learners to research a topic in Environmental Science, carry out relevant experimental work and prepare a report on their findings. It accounts for 20% of the total marks for external assessment.

Career Opportunities

There are many and varied career opportunities for students of Environmental Science including research, teaching, renewable energy, marine biology, conservation, waste management, water treatment, environmental monitoring, horticulture, etc. The skills developed in Science subjects can also lead to careers in many other areas.

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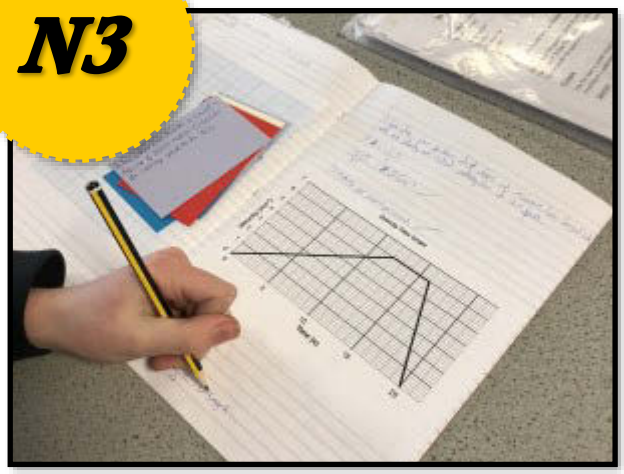
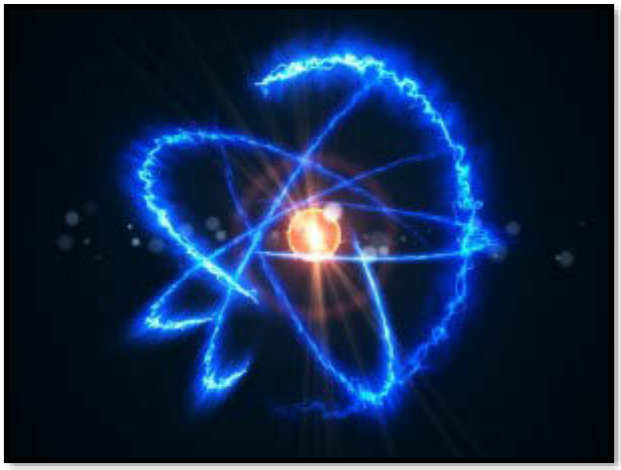
N3





What will I learn?

The National 3 Physics course allows learners to acquire basic knowledge of concepts in physics and be able to apply their understanding to practical situations.

It comprises of three units:

Electricity and Energy

The key areas covered are energy sources; electricity; energy transfer.

Waves and radiation

The key areas covered are wave properties; light; colour; optical instruments; electromagnetic radiation; sound.

Dynamics and Space

The key areas covered are forces; the solar system.

How will I learn?

Learners will develop and apply their knowledge of Physics by working collaboratively to carry out experiments, research tasks and presentations. This will enable them to develop their scientific inquiry, investigative and analytical thinking skills in a physical context.

There will be opportunities for the development of literacy and numeracy skills and where appropriate, aspects of health and wellbeing and ICT will be included.

How will I be assessed?

Learners will be required to pass the SQA Unit Assessments for each of the three units. They will also be required to carry out a practical investigation as part of their assessment.

There is no external exam at National 3 level.

Career Opportunities

There are many and varied career opportunities for students of Physics including research, teaching, medicine - diagnosis and treatment, renewable energy, electrical/mechanical/civil engineering, electronics, oil/gas/nuclear industries, construction, transport, telecommunications. The skills developed in Science subjects can also lead to careers in many other areas.

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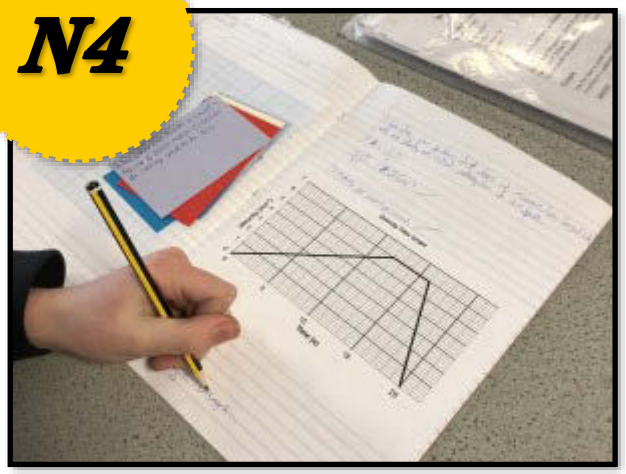
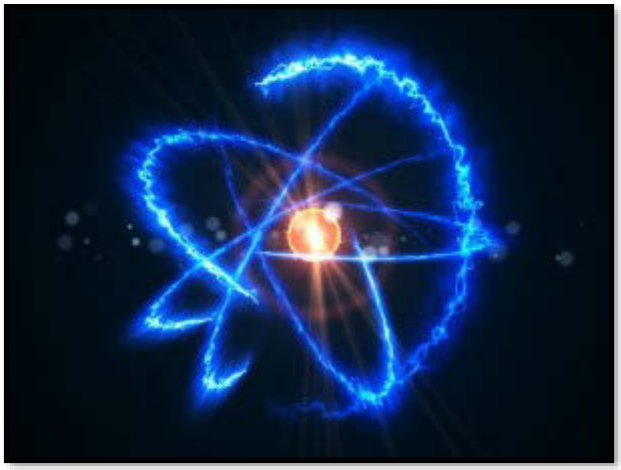
N4





What will I learn?

The National 4 Physics Course enables learners to develop the ability to solve problems and establish relationships in physics by acquiring a broad knowledge base, practical skills and basic mathematical skills.

It comprises of four units:

Electricity and Energy
The key areas covered are generation of electricity; electrical power; electromagnetism; practical electrical and electronic circuits; gas laws and the kinetic model.

Waves and radiation
The key areas covered are wave characteristics; sound; electromagnetic spectrum; nuclear radiation.

Dynamics and Space
The key areas covered are speed and acceleration; relationships between forces, motion and energy; satellites and cosmology.

Added Value Unit
In this Unit, learners will investigate a topic in depth, consider its impact on the environment and/or society, and present their information in the form of a written report or poster.

How will I learn?

Learners will develop and apply their knowledge of Physics by working collaboratively to carry out experiments, research tasks and presentations. This will enable them to develop their scientific inquiry, investigative and analytical thinking skills in a physical context.

There will be opportunities for the development of literacy and numeracy skills and where appropriate, aspects of health and wellbeing and ICT will be included.

How will I be assessed?

Learners will be required to pass the SQA Unit Assessments for each of the three units. They will also be required to carry out a practical investigation as part of their assessment. The written evidence for the Added Value Unit will also be assessed internally.

There is no external exam at National 4 level.

Career Opportunities

There are many and varied career opportunities for students of Physics including research, teaching, medicine - diagnosis and treatment, renewable energy, electrical/mechanical/civil engineering, electronics, oil/gas/nuclear industries, construction, transport, telecommunications. The skills developed in Science subjects can also lead to careers in many other areas.

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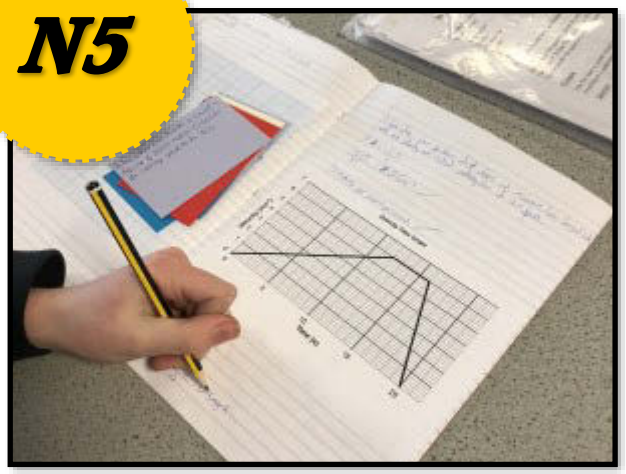
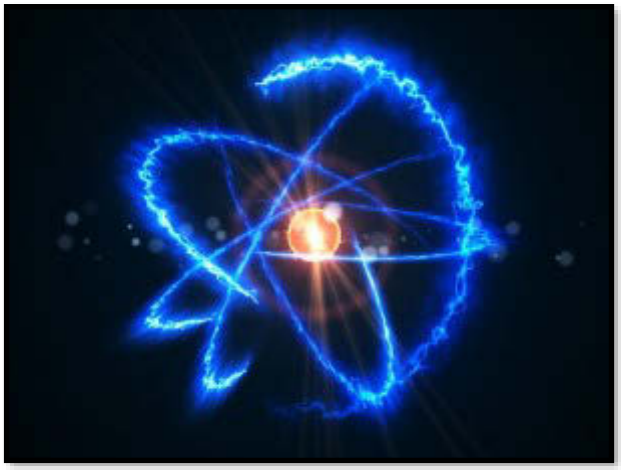
N5





What will I learn?

The National 5 Physics Course enables learners to develop a deeper understanding of physics concepts and the ability to describe and interpret physical phenomena using mathematical skills.

The course content includes the following areas of physics:

Dynamics
In this area, the topics covered are: vectors and scalars; velocity–time graphs; acceleration; Newton's laws; energy; projectile motion.

Space
In this area, the topics covered are: space exploration; cosmology.

Electricity
In this area, the topics covered are: electrical charge carriers; potential difference (voltage); Ohm's law; practical electrical and electronic circuits; electrical power.

Properties of Matter
In this area, the topics covered are: specific heat capacity; specific latent heat; gas laws and the kinetic model.

Waves
In this area, the topics covered are: wave parameters and behaviours; electromagnetic spectrum; refraction of light.

Radiation
In this area, the topic covered is nuclear radiation.

How will I learn?

Learners will develop and apply their knowledge of Physics by working collaboratively to carry out experiments, research tasks and presentations. This will enable them to develop their scientific inquiry, investigative and analytical thinking skills in a physical context.

There will be opportunities for the development of literacy and numeracy skills and where appropriate, aspects of health and wellbeing and ICT will be included.

How will I be assessed?

Question Paper (135 marks) – accounts for 80% of the total marks for external assessment. Section 1 contains multiple-choice questions and has 25 marks. Section 2 contains structured and extended response questions and has 110 marks.

Course Assignment (20 marks) – The assignment requires learners to research a topic in Physics, carry out relevant experimental work and prepare a report on their findings. It accounts for 20% of the total marks for external assessment.

Career Opportunities

There are many and varied career opportunities for students of Physics including research, teaching, medicine - diagnosis and treatment, renewable energy, electrical/mechanical/civil engineering, electronics, oil/gas/nuclear industries, construction, transport, telecommunications. The skills developed in Science subjects can also lead to careers in many other areas.

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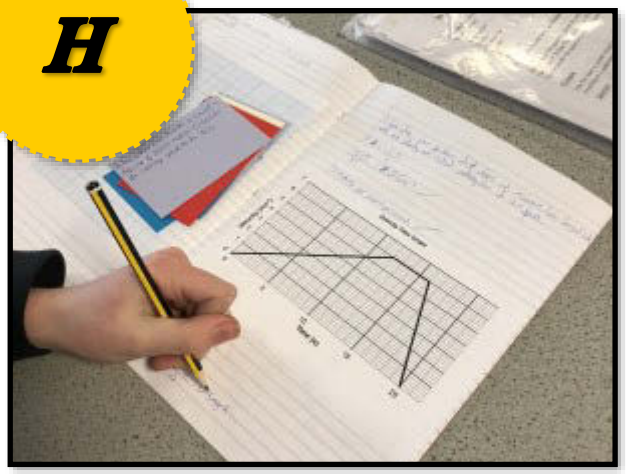

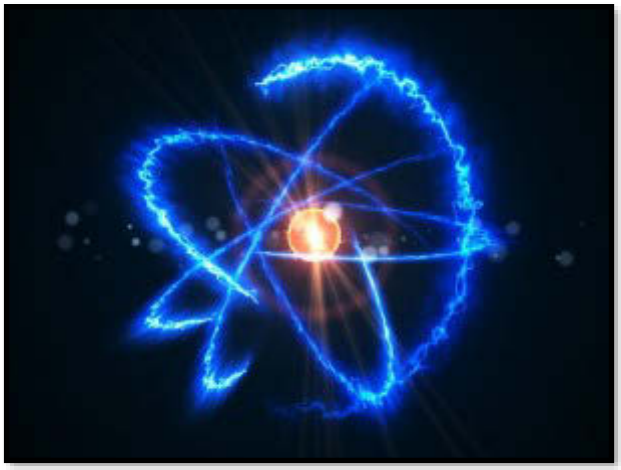

What will I learn?

The Higher Physics Course enables learners to gain a deeper insight into the structure of the subject and reinforce and extend their knowledge and understanding of the concepts of physics.

The course content includes the following areas of physics:

Our dynamic Universe

In this area, the topics covered are: motion – equations and graphs; forces, energy and power; collisions, explosions and impulse; gravitation; special relativity; the expanding Universe.

Particles and waves

In this area, the topics covered are: forces on charged particles; the Standard Model; nuclear reactions; inverse square law; wave-particle duality; interference; spectra; refraction of light.

Electricity

In this area, the topics covered are: monitoring and measuring AC; current, potential difference, power and resistance; electrical sources and internal resistance; capacitors; semi-conductors and p-n junctions.

How will I learn?

Learners will develop and apply their knowledge of Physics by working collaboratively to carry out experiments, research tasks and presentations. This will enable them to develop their scientific inquiry, investigative and analytical thinking skills in a physical context.

There will be opportunities for the development of literacy and numeracy skills and where appropriate, aspects of health and wellbeing and ICT will be included.

How will I be assessed?

Question Paper (155 marks) – accounts for 80% of the total marks for external assessment. Paper 1 contains multiple-choice questions and has 25 marks. Paper 2 contains structured and extended response questions and has 130 marks.

Course Assignment (20 marks) – The assignment requires learners to research a topic in Physics, carry out relevant experimental work and prepare a report on their findings. It accounts for 20% of the total marks for external assessment.

Career Opportunities

There are many and varied career opportunities for students of Physics including research, teaching, medicine - diagnosis and treatment, renewable energy, electrical/mechanical/civil engineering, electronics, oil/gas/nuclear industries, construction, transport, telecommunications. The skills developed in Science subjects can also lead to careers in many other areas.

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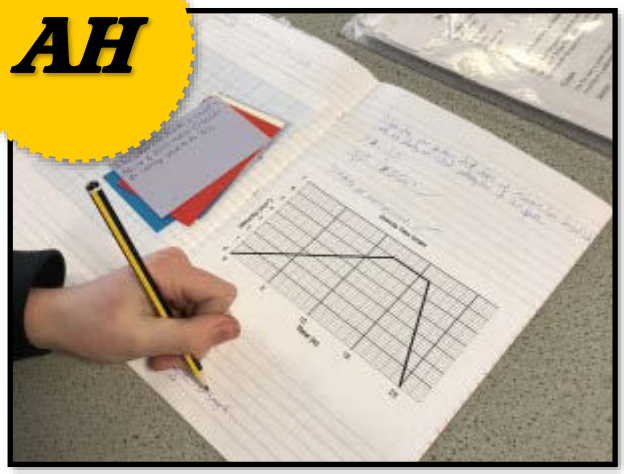
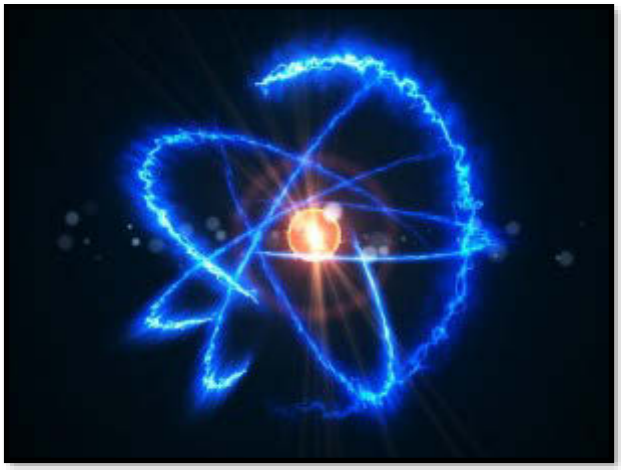
AH





What will I learn?

The Advanced Higher Physics Course enables learners to build on the knowledge and skills developed in the Higher Physics Course and to use their mathematical knowledge and skills to analyse and solve problems in real-life contexts. Through a deeper insight into the structure of the subject, the course reinforces and extends knowledge and understanding of the concepts of physics and develops skills in investigative practical work.

The course content includes the following areas of physics:

Rotational motion and astrophysics

In this area, the topics covered are: kinematic relationships; angular motion; rotational dynamics; gravitation; general relativity; stellar physics.

Quanta and waves

In this area, the topics covered are: introduction to quantum theory; particles from space; simple harmonic motion; waves; interference; polarisation.

Electromagnetism

In this area, the topics covered are: fields; circuits; electromagnetic radiation.

Units, prefixes and uncertainties

In this area, the topics covered are: units, prefixes and scientific notation; uncertainties; data analysis; evaluation and significance of experimental uncertainties.

How will I learn?

The course encourages candidates to take more responsibility for their learning. They will be taken through the course by the class teacher using a variety of resources. This provides good preparation for candidates moving on to study in further or higher education. It gives them further experience in independent investigative work. Candidates improve their scientific literacy by designing and carrying out their own investigation, analysing and evaluating scientific publications and producing scientific reports and communications. Opportunities to generate new ideas when planning and designing investigations and experiments also develops candidates' creativity.

How will I be assessed?

Question Paper (155 marks) – accounts for 75% of the total marks for external assessment. The question paper contains structured and extended response questions.

Course Project (30 marks) – The project requires learners to research a topic in Physics, carry out relevant experimental work and prepare a report on their findings. It accounts for 25% of the total marks for external assessment.

Career Opportunities

There are many and varied career opportunities for students of Physics including research, teaching, medicine - diagnosis and treatment, renewable energy, electrical/mechanical/civil engineering, electronics, oil/gas/nuclear industries, construction, transport, telecommunications. The skills developed in Science subjects can also lead to careers in many other areas.

Geography

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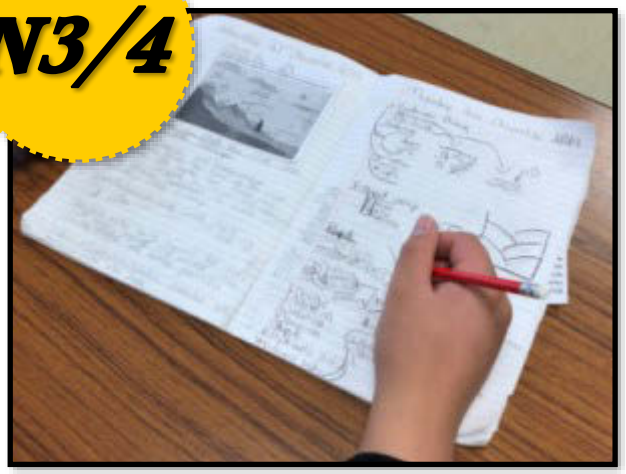
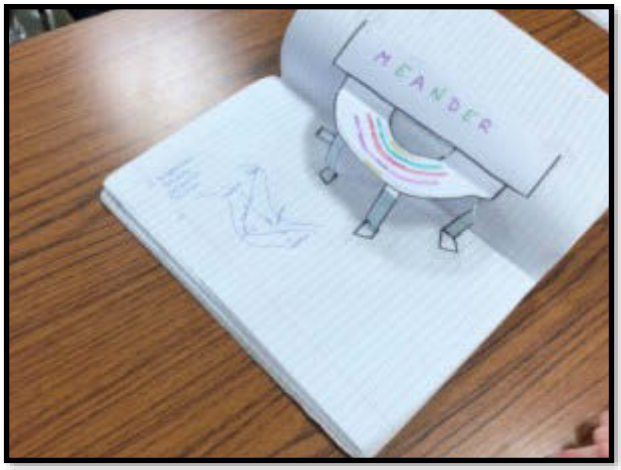
N3/4





What will I learn?

In Geography we study how natural and man-made environments around us have changed through time. Students will also acquire a new perspective on the biggest challenges facing our global society today.

Topics in the National Course include:

- Glaciated uplands
- Coastal landscapes
- Land use conflicts
- Weather
- Population
- Economic inequalities
- Urban areas – Glasgow
- Farming – India & USA

How will I learn?

Learning in National Geography involves a range of different methods and approaches such as:

- Direct teaching
- Real world case studies
- Online Research
- Group work
- Fieldwork

How will I be assessed?

Students following the National 3 course will be assessed on a unit – by – unit basis. These assessments will be on a pass / fail basis within school, but the SQA will moderate and verify marks.

Students following the National 4 course will be assessed on a unit – by – unit basis. The unit assessments are all contained in one booklet. These assessments will be on a pass / fail basis within school, but the SQA will moderate and verify marks.

Pupils need to complete a research assignment. This involves conducting practical fieldwork on a trip, processing the raw data and reaching a well-supported conclusion on a specific topic or issue. The assignment has a greater emphasis on skills than the question paper. Evidence is assessed internally and is pass/fail.

Career Opportunities

The National 3/4 Geography Course provides an entry qualification for further study, employment and training. This Course is a preparation for a diverse range of occupations and careers such as:

- Cartographer
- Land Surveyor
- Data Analyst
- Environmental consultant
- Town Planner
- Renewable Energy

Geography

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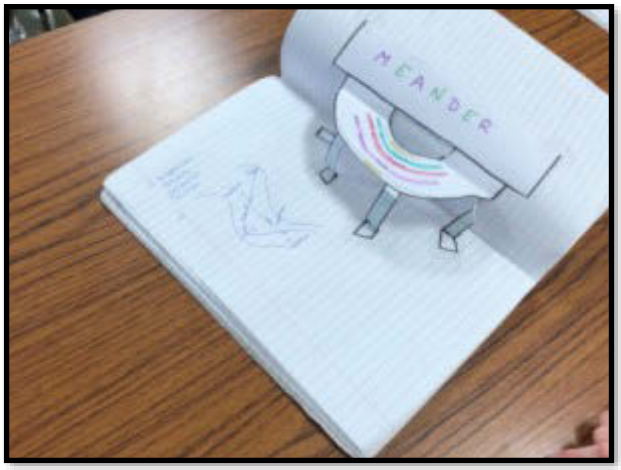
N5



What will I learn?

In Geography we study how natural and man-made environments around us have changed through time. Students will also acquire a new perspective on the biggest challenges facing our global society today.

Topics in the National Course include:

- Glaciated uplands
- Coastal landscapes
- Land use conflicts
- Weather
- Population
- Economic inequalities
- Urban areas – Glasgow
- Farming – India & USA

How will I learn?

Learning in National Geography involves a range of different methods and approaches such as:

- Direct teaching
- Real world case studies
- Online Research
- Group work
- Fieldwork

How will I be assessed?

Regular internal assessments will take place throughout the year to allow staff to monitor progress at this level. These will be marked using standardised marking schemes supplied by the SQA as appropriate. National 5 Geography students will complete an external examination set by the SQA. This exam will assess pupil's knowledge, understanding and geographical skills, the exam is currently worth 70 marks and has a time allocation of two hours and five minutes.

Pupils need to complete a research assignment. This involves conducting practical fieldwork on a trip, processing the raw data and reaching a well-supported conclusion on a specific topic or issue. The assignment has a greater emphasis on skills than the question paper. The assignment is worth 20% of the overall grade.

Career Opportunities

At its core, Geography is an interdisciplinary subject, meaning it connects different parts of many different subjects. Therefore, the skills gained from studying Geography are broad and diverse. The possible careers available to a student of Geography are equally broad and diverse. They might include careers like:

- Cartographer
- Land Surveyor
- Data Analyst
- Environmental consultant
- Town Planner
- Renewable Energy

Geography

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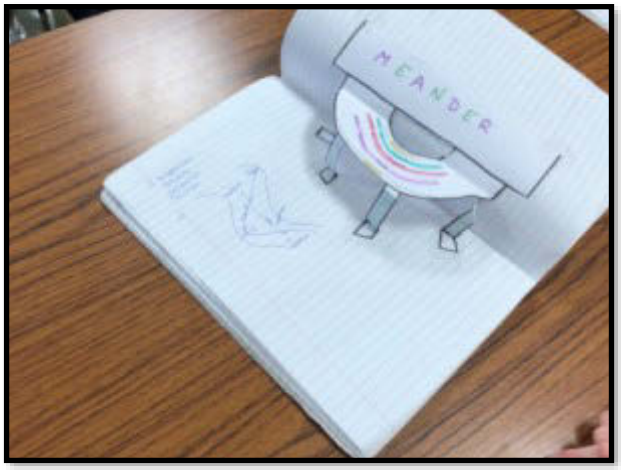

What will I learn?

In Geography we study how natural and man-made environments around us have changed through time. Students will also acquire a new perspective on the biggest challenges facing our global society today.

Topics in the Higher course include:

- Atmosphere
- Hydrosphere
- Lithosphere
- Biosphere
- Population
- Rural
- Urban
- Global Climate Change

How will I learn?

Learning in Higher Geography involves a range of different methods and approaches such as:

- Direct teaching
- Real world case studies
- Online Research
- Group work
- Fieldwork

How will I be assessed?

Regular internal assessments will take place throughout the year to allow staff to monitor progress at this level. These will be marked using standardised marking schemes supplied by the SQA as appropriate. Higher Geography students will complete an external examination set by the SQA. This exam will assess pupil's knowledge, understanding and geographical skills. The exam is comprised of two parts, the first has a time allocation of 1 hour 50 minutes and assesses knowledge of Human & Physical environments. The second has a time allocation of 50 minutes and assesses knowledge of Global Climate Change and Geographical Skills.

The course assessment component is a 30-mark assignment which makes up 27% of your final grade. The assignment has three main stages including fieldwork, processing information and the write up. Pupils develop practical geographical fieldwork skills.

Career Opportunities

The course is appropriate for a range of candidates, from those who wish to achieve a greater understanding of the environment and their place in it, to those who wish to progress to more specialised training, further education, or entry into a diverse range of occupations and careers. Job opportunities include:

- Cartographer
- Land Surveyor
- Data Analyst
- Environmental consultant
- Town Planner
- Renewable Energy

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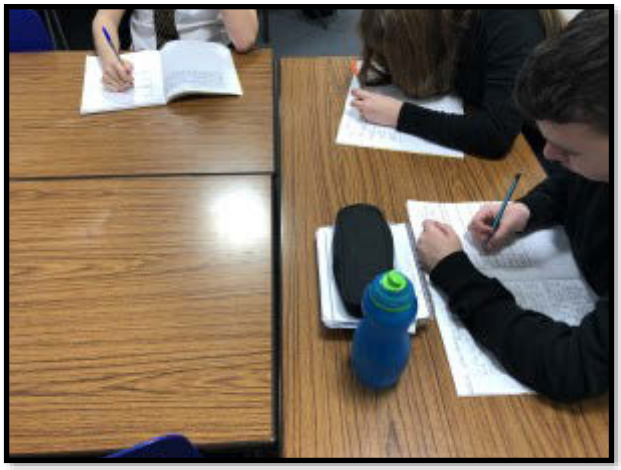
N4/5



What will I learn?

The National level course will develop knowledge and understanding across Scottish, British and European and World contexts.

SCOTTISH: The Wars of Independence, 1286-1328
- The succession problem, 1286-1292
- Balliol and Edward I, 1292-1296
- William Wallace, 1296-1305
- Robert Bruce, 1306-1328

BRITISH: The Atlantic Slave Trade, 1770-1807
- The Triangular Trade
- Britain and the Caribbean
- The captive's experience and slave resistance
- The abolitionist campaigns

EUROPEAN AND WORLD:
- Free at Last? Civil Rights in the USA, 1918-1968:
- The 'Open Door' policy and immigration
- 'Separate but Equal'
- Civil Rights campaigns to 1968
- Ghettos and black American radicalism

How will I learn?

Pupils will develop a better understanding of our nation's past, and will more fully comprehend its part in global changes. Using a range of teaching strategies including; ICT, primary and secondary sources and class discussion, they will become more confident in:

- selecting and interpreting information from a variety of historical sources
- building knowledge and understanding of the factors contributing to historical events
- forming views on the significance of the causes/ consequences of historical events
- forming their own judgements on the importance of historical events, taking historians opinions in to consideration

How will I be assessed?

At National 4 students need to pass four units, one from each of the core units, and an added value unit which is in the form of a research project.

At National 5 there are two components.

- The question paper assesses knowledge and understanding as well as skills and is worth 80% of the final grade.
- The assignment is a research project, carried out over several weeks and written up under exam conditions. This project makes up the final 20% of the grade.

Career Opportunities

Careers paths in History, Politics, Journalism, Teaching and other related disciplines could be considered.

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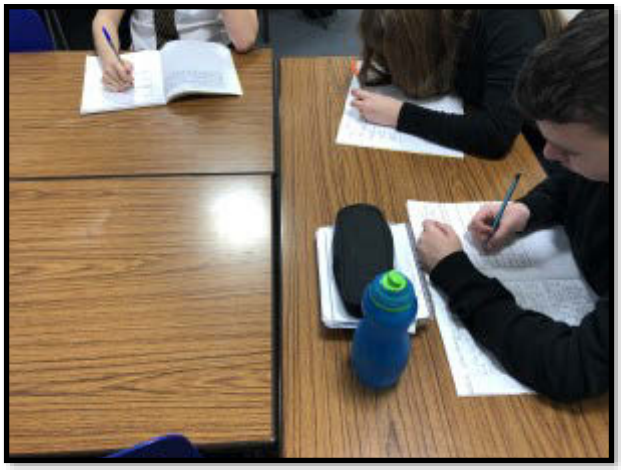

What will I learn?

The Higher level course will develop knowledge and understanding across Scottish, British and European and World contexts.

SCOTTISH: Migration and Empire, 1830–1939
- Immigration to Scotland
- Immigrant Experiences
- Scottish Emigration
- Scots Abroad

BRITISH: Britain and Ireland 1900-1985
- Growing tension up to 1914 and the impact of WW1 on Ireland
- Obstacles to peace 1918-21 and the outbreak of civil war 1922
- The developing crisis in Northern Ireland up to 1968
- Obstacles to peace 1968-85

EUROPEAN AND WORLD: The Cold War 1945-1989:
- The origins of the Cold War
- Soviet Control in Eastern Europe
- Flashpoints: the Cuban Missile Crisis, the Vietnam War,
- Détente and the end of the Cold War.

OR

EUROPEAN AND WORLD:
- Appeasement and the Road to War, 1918-1939
- Aggressive foreign policy of the 1930s – Germany and Italy
- British foreign policy and attempts at appeasement, 1935-1938
- The Munich Agreement of 1938 and the reasons for the outbreak of war, 19

How will I learn?

Pupils will develop a better understanding of our nation's past, the relationship with our neighbours in Ireland, and key global events of the 20th Century and will more fully comprehend its part in global changes. Using a range of teaching strategies including; ICT, primary and secondary sources and class discussion, they will become more confident in:

- selecting and interpreting information from a variety of historical sources
- building knowledge and understanding of the factors contributing to historical events
- forming views on the significance of the causes/ consequences of historical events
- forming their own judgements on the importance of historical events, taking historians opinions in to consideration

How will I be assessed?

Assessment at Higher involves a written examination. Here pupils complete two papers. Paper 1 is based on essay writing skills and examines the ability to recall, organise and evaluate key information. Paper 2 assesses the candidates' ability to evaluate source material and incorporate recalled knowledge.

Candidates also complete an assignment which is an extended piece of writing worth 30 marks (27% of their overall grade). The assignment allows the candidate to choose an area of history to study in more depth.

Career Opportunities

Careers paths in History, Politics, Journalism, Teaching and other related disciplines could be considered.

History

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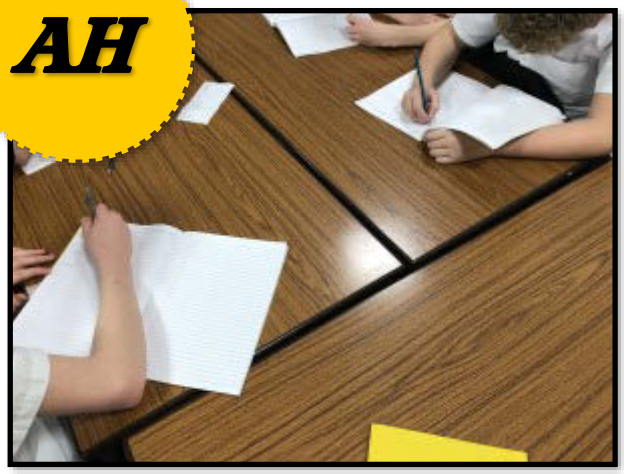

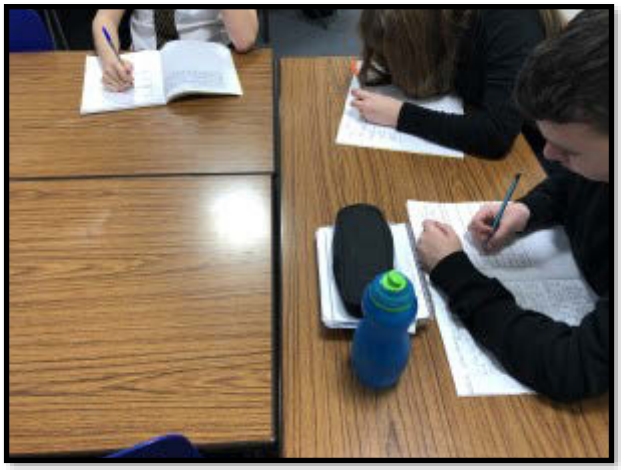

What will I learn?

This course will focus on German history between the two world wars. This is a country who stands as an economic, cultural and political powerhouse in modern Europe but its journey through the twentieth century to get to its current position has been one of political and economic extremes. Germany from Democracy to Dictatorship, 1918–39 will examine the dramatically changing political landscape of Germany from its journey as a defeated and humiliated monarchy after World War One through a period of relative stability as a republican democracy to a right-wing totalitarian dictatorship under one of the most brutal regimes in history. The students will examine the reasons for these changes and how they affected politics, society, economy and foreign policy as well as looking at the leadership of Hitler and Nazi Germany, the consequences for its citizens and resistance and opposition to that regime.

How will I learn?

Students will engage in a significant amount of self-directed study (reading, research and note making) as well as lectures, seminars, group activities, presentations and debates. These activities, as well as essay writing and source handling skills will be taught to prepare students for the final exam but will also prepare them for higher education. The delivery of the course and the responsibilities of students in self-directed study is similar to that of a first year university course in Arts and Humanities.

How will I be assessed?

Students will be assessed through regular essay writing tasks and preparation for seminars and debates and presentations. The final exam consists of 2 essays and 3 source handling questions which lasts for 3 hours. There will also be a dissertation of 4000 words which must be completed over a period of time based on a question chosen from a set list linked to the topics studied.

Career Opportunities

Students of AH History have gone on to access a wide range of careers due to the broad spectrum of skills developed. From journalists to judges, politicians to police, lawyers to librarians and teachers to tour guides. The current British heir to the throne is also a graduate of history! This subject can take students into almost any avenue of further education and careers due to its status as a strong and well-respected academic subject.

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N4/5

What will I learn?

Modern Studies courses have three units:

- Democracy in Scotland (Scottish Parliament, political parties, voting systems, role of the First Minister and citizens influence in politics)
- Social Issues (crime, the police and the courts, the prison system)
- International Issues (America – Political Structure, political representation, Gun Laws, Social inequalities and Government action)

How will I learn?

Learning in Modern Studies involves a range of methods and approaches including regular discussions of current affairs, making notes from presentations, reading resource sheets, online-research, analysing sources of evidence and group presentation tasks.

Students are expected to gain knowledge of current issues but are also asked to evaluate and draw conclusions from new information provided to them.

How will I be assessed?

- National 4 involves four pass/fail units which are internally assessed. One of these is a ICT project on a topic chosen by the student.
- National 5 involves a written assignment (20%) and a final exam (80%)

Career Opportunities

Modern Studies provides a chance to learn about modern UK life. The insights gained are of considerable value in a wide range of careers including online and broadcast media, publicity, social work, law and law enforcement, politics and journalism.

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What will I learn?

Modern Studies courses have three units:

- Democracy in the UK (constitutional arrangements, political parties, voting arrangements, role of parliament and citizens influence in politics)
- Social Issues (Health and wealth inequalities in Britain)
- International Issues (Development in Africa – Barriers to development, consequence of issues, government/non-government aid)

How will I learn?

Learning in Modern Studies involves a range of methods and approaches including regular discussions of current affairs, making notes from presentations, reading resource sheets, online-research, analysing sources of evidence and group presentation tasks.

Students are expected to gain knowledge of current issues but are also asked to evaluate and draw conclusions from new information provided to them.

How will I be assessed?

- Higher involves a written assignment (27%) and a final exam (73%).
- Small unit assessments will also be given at regular intervals to check progress.
- The assignments are on a topic chosen by the student, independently research and written up under exam conditions.

Career Opportunities

Modern Studies provides a chance to learn about modern UK life. The insights gained are of considerable value in a wide range of careers including online and broadcast media, publicity, social work, law and law enforcement, politics and journalism.

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What will I learn?

The course covers 3 main units:

- **Political Theory**
- **Political Systems (A comparison of the UK and the USA)**
- **Political Parties and Elections**

How will I learn?

Learning in Politics involves a range of methods and approaches including regular discussions of current affairs and historic political events, making notes from presentations, reading resource sheets, online-research, analysing sources of evidence and group presentation and teaching tasks.

How will I be assessed?

Higher Politics has 3 assessment elements:

- **Paper 1 – 3 Essays**
- **Paper 2 – 3 Skills Questions**
- **Assignment (27%) – this an essay on a topic chosen by the student, independently researched and written up under exam conditions.**

Small unit assessments will also be given at regular intervals to check progress.

Career Opportunities

The insights gained are of considerable value in a wide range of careers. A number of students often choose politics as a subject at university. Specific careers include; law and law enforcement, journalism and a job in politics.

Graphic Communication

Contact: Mr. P. Johnston (PT Technologies)
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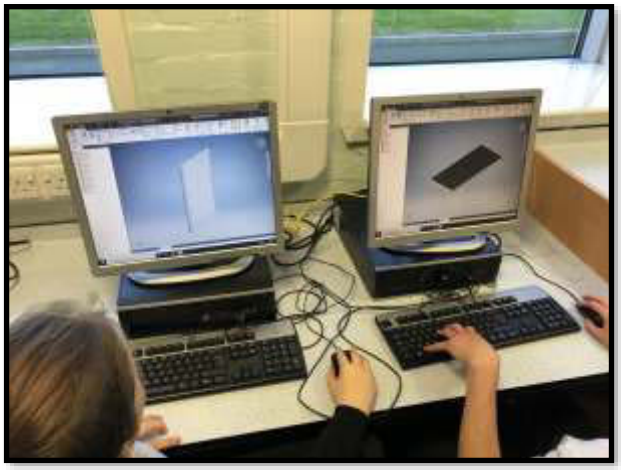
N4/5



What will I learn?

With the modern society heavily relying on the creative industry you will learn all about emerging technologies and the skills involved. You will be introduced to the ever-increasing variety of graphics used within design, manufacturing and engineering.

This course will introduce 2D and 3D Computer Aided Design, CNC Machinery including Laser Cutters and 3D Printing, Engineering, Computer and Manual Rendering, Desktop Publishing to create your own magazine spreads, Graphic Design including printing, publishing and animation, creating technical graphics using traditional drawing board methods as well as the more modern CAD techniques.

How will I learn?

A range of resources and techniques are used to carry out the various tasks expected within each unit of work which will be broken into individual folios specifically designed to challenge and test students. Learning is 'hands on' and practical with the course being designed to replicate a real world graphics environment.

Theory content is delivered each week to ensure students are best equipped for answering the written extended response questions expected from the examination, boosted with regular homework exercises that have been specially tailored to best suit our students.

Students will require to complete manual and computer based work throughout the academic year.

How will I be assessed?

At National 4 you will complete a Graphics Assignment which is Pass or Fail.

At National 5 there is two components;

Question Paper (80 Marks) 2 Hours- Will assess the learners' skills, knowledge, understanding and visual literacy through the graphics techniques and practice they have acquired. Accounts for 67% of the course award.

Assignment (40 Marks) - This will draw on, extend and apply the skills and knowledge acquired and developed during the course. Accounts for 33% of the course award and is complete during class time with 8 hours allocated.

Career Opportunities

The STEM Initiative continues to inspire young people to engage and achieve in STEM subjects and create unique career paths moving forward. Students that enjoy Graphic Communication should consider careers in; Marketing, Advertising, Digital Design, Desktop Publishing, Animation, Architecture, Engineering, Graphic Design, Computer Aided Design, Print Design, Web Design, Illustration, Surveying, Civil Engineering and Product Design.

Graphic Communication

Contact: Mr. P. Johnston (PT Technologies)
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What will I learn?

The key aim of this course is to continue to build on the foundations acquired during the National 5 qualification. Students will be expected to work independently and select a key demographic area within the Graphic industry to be the main focal point of their academic year.

This course will continue to develop and introduce 2D and 3D Computer Aided Design, CNC Machinery including Laser Cutters and 3D Printing, Engineering, Computer and Manual Rendering, Desktop Publishing to create your own magazine spreads and websites, Graphic Design including printing, publishing and animation, creating technical graphics using traditional drawing board methods as well as the more modern CAD techniques, varying Graphic file types and techniques, Tolerances and Typography including creating your own font.

How will I learn?

A range of resources and techniques are used to carry out the various tasks expected within each unit of work which will be broken into individual folios specifically designed to challenge and test students. Learning is 'hands on' and practical with the course being designed to replicate a real world graphics environment - especially each students chosen industry area.

Theory content is delivered each week to ensure students are best equipped for answering the written extended response questions expected from the examination, boosted with regular homework exercises that have been specially tailored to best suit our students.

Students will require to complete manual and computer based work throughout the academic year.

How will I be assessed?

At Higher there is two components;

Question Paper (90 Marks) 2 Hours and 30 Minutes- Will assess the learners' skills, knowledge, understanding and visual literacy through the graphics techniques and practice they have acquired. Accounts for 64% of the course award.

Assignment (50 Marks) - This will draw on, extend and apply the skills and knowledge acquired and developed during the course. Accounts for 36% of the course award and is complete during class time with 8 hours allocated.

Career Opportunities

The STEM Initiative continues to inspire young people to engage and achieve in STEM subjects and create unique career paths moving forward. Students that enjoy Graphic Communication should consider careers in; Marketing, Advertising, Digital Design, Desktop Publishing, Animation, Architecture, Engineering, Graphic Design, Computer Aided Design, Print Design, Web Design, Illustration, Surveying, Civil Engineering and Product Design.

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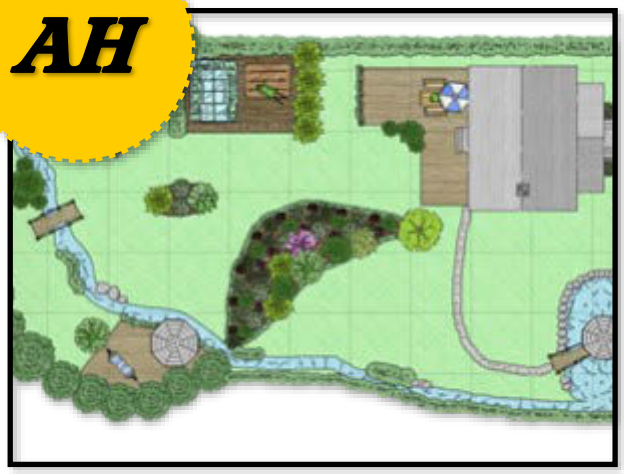
AH



What will I learn?

The key aim of this course is to continue to build on the key skills acquired during the Higher qualification. Students will be expected to work independently and select a key demographic area within the Graphic industry to be the main focal point of their academic year.

This course will continue to develop and introduce 2D and 3D Computer Aided Design, CNC Machinery including Laser Cutters and 3D Printing, Engineering, Computer and Manual Rendering, Desktop Publishing to create your own magazine spreads and websites, Graphic Design including printing, publishing and animation, creating technical graphics using traditional drawing board methods as well as the more modern CAD techniques, varying Graphic file types and techniques. Content relating to Technical Graphics (Built Environment, Manufacturing etc.), Technical Graphics and Commercial and Visual Media Graphics are introduced and focussed on.

How will I learn?

A range of resources and techniques are used to carry out the various tasks expected within each unit of work which will be broken into individual folios specifically designed to challenge and test students. Learning is 'hands on' and practical with the course being designed to replicate a real world graphics environment - especially each students chosen industry area.

Theory content is delivered through a full 250 page+ course booklet to ensure our students are best equipped for answering the written extended response questions expected from the examination, boosted with regular homework exercises that have been specially tailored to best suit our students.

Students will require to complete manual and computer based work throughout the academic year.

How will I be assessed?

At Advanced Higher there is two components;

Question Paper (90 Marks) 2 Hours and 30 Minutes- Will assess the learners' skills, knowledge, understanding and visual literacy through the graphics techniques and practice they have acquired. Accounts for 50% of the course award.

Assignment (90 Marks) - This will draw on, extend and apply the skills and knowledge acquired and developed during the course. Accounts for 50% of the course award and is completed throughout the academic year using an open brief.

Career Opportunities

The STEM Initiative continues to inspire young people to engage and achieve in STEM subjects and create unique career paths moving forward. Students that enjoy Graphic Communication should consider careers, such as; Marketing, Advertising, Digital Design, Desktop Publishing, Animation, Architecture, Engineering, Graphic Design, Computer Aided Design, Print Design, Web Design, Illustration, Surveying, Civil Engineering and Product Design.

Contact: Mr. P. Johnston (PT Technologies)
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NPA

What will I learn?

The course is a fine metalwork based Jewellery course which is delivered in the workshops within the Technical Education Faculty.

This course is quite unique and allows learners to develop practical skills that support development of working with precision in fine metalwork. They will develop skills to explore and understand a variety of metals using industry specific machinery and tools.

It supports the learners to develop safe working practices and become proactive in Health and Safety.

How will I learn?

Various projects will be delivered through the year which are designed so that students can build their creativity and industry specific techniques and processes.

They will have the opportunity to develop their creativity and explore the material, tools, techniques and processes. They will learn new skills and develop a deeper understanding of safe workshop practice and routines to work within a metalsmithing industry. Students outcomes are also evidenced in sample pieces of metalwork and finished products such as rings, earrings, pendants and wristbands/bangles.

How will I be assessed?

Assessment will take place through students completing the following tasks, through projects and evidencing their progress and meeting the assessment criteria in log books. This will consist of sample in metals, photographic evidence and student log books/portfolios. There is no written exam in this course.

Career Opportunities

We are fortunate to have a local community supports local skilled Craftsmen and women to become entrepreneurs. Other local opportunities could include metal manufacturers due to understanding of metalwork properties and methods of marking shaping and joining including; Engineering, plumbing, toolmaking, welding and other fabrication.

Practical Cookery

Contact: Mr. P. Johnston (PT Technologies)
E-Mail: gw11johnstonpaul3@ea.dumgal.sch.uk

N4/5

What will I learn?

You will learn:

- how to work safely and hygienically when preparing meals
- cookery skills and food preparation techniques
- to develop planning, organisational and time management skills in a cookery context
- how to garnish dishes to enhance their presentation
- about current dietary advice relating to the use of ingredients
- about the characteristics of ingredients, including sustainability

How will I learn?

Learning will be developed mainly through practical cookery experiences. Classroom sessions will be used to develop knowledge and understanding and to practise the writing skills required to meet the assessment standards.

How will I be assessed?

N4 – By demonstrating skills and understanding in a range of practical cookery tasks

N5 – A written assignment worth 18 marks, a practical cookery task lasting 2 hours and 30mins worth 82 marks and an exam paper lasting 1 hour worth 30 marks.

Career Opportunities

Chef, Catering, Hospitality Sector.

SP Technologies

Practical Craft Skills

Contact: Mr. P. Johnston (PT Technologies)
E-Mail: gw11johnstonpaul3@ea.dumgal.sch.uk

N2/3

What will I learn?

The Course is practical and experiential in nature. It focuses on the development of practical woodworking and/or practical metalworking skills. It provides opportunities for learners to gain practical craft skills in the use of a range of tools, equipment and materials, working with wood, manufactured boards and/or metals. It allows learners to follow a series of activities through to the completion of a finished item.

The Course provides opportunities to develop and enhance practical creativity and practical problem-solving skills, and to gain an appreciation of safe working practices in a workshop or similar environment.

How will I learn?

Various projects are delivered throughout the year that are designed to develop and push all students creative and motor skills.

Students will have the opportunity to personalise and develop unique skills that will be different from their peers, which creates a challenging environment where each student learns new skills from each other.

A healthy, team based environment is formed early on which helps develop a full understanding of all industrial standards.

How will I be assessed?

This course is comprised of three units which broadly cover the types of activity undertaken by professional personnel within the Construction industry.

There is no written exam and the course is fully assessed during the academic year in class.

Career Opportunities

Our local community actively seeks skilled professionals with varying modern apprenticeships available to keen students. Students that enjoy Practical Woodworking should consider careers in; Joinery, Craft Work, Electrical Engineering, Furniture Manufacture, Plumbing, Toolmaking, Pipefitting, Engineering, Motor Vehicle Repair, Vehicle Body Repair, Welding and Fabrication, Blacksmithing, Carpentry and Painting and Decorating.

Practical Woodworking

Contact: Mr. P. Johnston (PT Technologies)
E-Mail: gw11johnstonpaul3@ea.dumgal.sch.uk

N4/5

What will I learn?

The Practical Woodworking Course is largely workshop-based. It provides a broad introduction to practical woodworking.

Theory is regularly delivered once per week in one of the Graphic Suites within the Technical Education Department.

The Course is distinct in value in that it allows learners to develop practical psychomotor skills (manual dexterity and control) in a universally popular practical craft environment. It helps learners develop safe working practices and to become proactive in matters of health and safety. It allows them to learn how to use a range of tools, equipment and materials correctly and safely.

How will I learn?

Various projects are delivered throughout the year that are designed to develop and push all students creative and motor skills.

Students will have the opportunity to personalise and develop unique skills that will be different from their peers, which creates a challenging environment where each student learns new skills from each other.

A healthy, team based environment is formed early on which helps develop a full understanding of all industrial standards.

How will I be assessed?

Made up of 3 assessment units, a Final Project and a written exam(N5 only):

Unit 1: Flat-frame Construction (Pass/Fail)
Unit 2: Carcase Construction (Pass/Fail)
Unit 3: Machining and Finishing (Pass/Fail)
Final Project: SQA Assignment (70%)
Written Exam: 60 Marks Available(30%) 1 Hour

Career Opportunities

Our local community actively seeks skilled professionals with varying modern apprenticeships available to keen students. Students that enjoy Practical Woodworking should consider careers in; Joinery, Craft Work, Electrical Engineering, Furniture Manufacture, Plumbing, Toolmaking, Pipefitting, Engineering, Motor Vehicle Repair, Vehicle Body Repair, Welding and Fabrication, Blacksmithing, Carpentry and Painting and Decorating.

SP Additional Courses

Level 4/5 Employability and Volunteering

Contact: Mrs. H. Wells (PT Additional Support Needs)
E-Mail: gw09gemmellholly3@ea.dumgal.sch.uk

SQA

What will I learn?

Pupils will develop skills that will prepare them for the world of work. The main focus of the award will be employability - CV writing and job applications - and the benefits of volunteering, both in terms of improving job prospects and furthering charitable causes.

How will I learn?

As well as carrying out in-class projects, all pupils will complete a work experience placement of their choice. Pupils will reflect on the skills they have developed while on placement and evaluate their own workplace performance.

How will I be assessed?

All assessments will be internal - there is no final exam in this subject.

Career Opportunities

Pupils will be encouraged to choose a work experience placement that accurately reflects their own career goals or interests. This award would also benefit a pupil interested in pursuing a career in the voluntary sector or interested in working for a charity.

SP Additional Courses

Level 4/5 Mental Health and Wellbeing

Contact: Mrs. H. Wells (PT Additional Support Needs)
E-Mail: gw09gemmellholly3@ea.dumgal.sch.uk

N4

What will I learn?

The Mental Health and Wellbeing course explores 3 main areas:

- Understanding Mental Health Issues
- Influences on Mental Health and Wellbeing
- Coping Strategies and Building Resilience

How will I learn?

The majority of this course involves sharing ideas with a group and conducting individual research around Mental Health and Wellbeing. Pupils will explore how Mental Health and Wellbeing can influence their lives in and beyond school as well as familiarising themselves with relevant legislation that protects people.

How will I be assessed?

Ongoing coursework for this course and individual research acts as the assessment for this course.

Career Opportunities

This course will appeal to pupils wishing to explore a career in Mental Health.

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