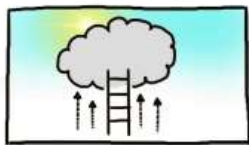
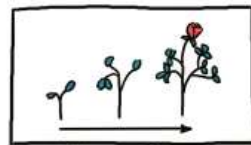


Bellahouston Academy

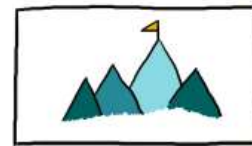
Bellahouston Academy's...
VISION & VALUES



ASPIRATION



GROWTH



ACHIEVEMENT



BELONGING



BELLAHOUSTON ACADEMY



RESPECT

We **BELONG** here, and will **ASPIRE**, **GROW** and **ACHIEVE** together, within a culture of **RESPECT**.

S2 Options Booklet

2024-2025

Introduction

You have been following a Broad General Education programme in which you have had a wide range of experiences and achieved many outcomes in subject across the school. This will help you make informed choices about the subjects you wish to study in S3 and S4. You have learned many skills and now have the opportunity to reflect on the following:

- your strengths
- your interests
- the importance of keeping an open mind about possible career choices
- how to find and use career resources in the school
- equal opportunities

What now?

- Read the subject information in the booklet. This has been written by members of staff. Go and speak to the departments if you are unsure or have questions.
- Discuss and complete your option form with your parent/carer. Explain your ideas to them and ask them to help you think it through.
- Bring the completed form to your one-to-one interview.

You will have a one-to-one interview with your Pastoral Care teacher leading to a final decision about your options in S3 and S4.

Your options will be agreed upon by you, your parent/carer and the school.

Choices

Your choices should allow you increasing specialisation whilst ensuring the right level of challenge and support. This should also provide a strong basis for moving on to study for qualifications.

You will study eight subjects over a two-year course at either National 3, National 4 or National 5 Level.

Balance

Don't choose what looks like the 'best' subject from each column but think of a group of subjects which will be useful for the type of career you have in mind. The Option Form is coloured according to broad subject areas and your choices should include a selection or 'rainbow' of colours.

Be realistic

Choose a course of study that will be challenging but not too difficult for you. Your subject teachers can advise you on how you are likely to cope in the subjects they teach. If you really enjoy a subject and work hard at it, you can achieve the best you can. Drive and determination will help you succeed.

The Options Form

- Grey Sections = Compulsory sections that are filled in for you.
- **You will study Core PE, PSHE, Core RME together with a daily tutor class.**
- **Maths and English are compulsory for everyone.**
- Write your choices (1st and 2nd) in the **yellow boxes — 4 for GSOS pupils and 6 for everyone else.**
- Choose **one** subject from each column as your first choice.
- You CANNOT choose the same subject in two columns.
- Choose your second choice in each column.
- Subjects appear in more than one column to give you flexibility and help avoid any clashes.

The Option form and Booklet will be available online and Pastoral Care staff will arrange a meeting to review your choices.

And remember:

- Our school library has a special careers section which contains a lot of information which may help you decide.
- Your PSHE teacher can help you access online careers advice.
- Mr Ruiseil, Mrs Summers, Mr Atha, Mrs Rashid and Miss Kennedy will be happy to answer any questions which you may have at this time.

Useful Web Links for Pupils and Parents

<https://blogs.glowscotland.org.uk/gc/bellahoustonacademy2019/>

www.youngscot.org (learners)

www.parentzonescotland.gov.uk (parents and carers)

www.employersandyoungpeople.co.uk (employers)

www.sqa.org.uk (information on qualifications)

www.hmie.gov.uk (standards, inspections)

www.ltscotland.org.uk (teaching practice and support)

www.engageforeducation.org (share ideas and questions about education issues)

www.scotland.gov.uk/cfeinaction (examples of CfE in action and signposts to further information)

Art and Design

Art and Design encourages self-expression and creativity and can build confidence as well as a sense of individual identity.

Creativity can also help with wellbeing and improving health and happiness. Many young people advocate that Art and Design acts as an outlet for releasing the pressures of studying as well as those of everyday life.

Studying this subject also helps to develop critical thinking skills and the ability to interpret the world around us.

Art Skills

Creative problem solving

Fine motor skills

Communication skills

Coordination skills

Literacy skills

Numeracy skills

Analysis and critical thinking skills

Collaborative working skills

Course Content

The National 5 course is divided into 3 separate elements:

- Expressive Portfolio (40% of overall mark)
- Design Portfolio (40% of overall mark)
- Question Paper (20% of overall mark)

This course consists of 250 marks in total to achieve.

The course offers multiple opportunities for personalisation and individuality in both the expressive and design folio elements. In your expressive portfolio you have the option to explore still life, portraiture, built environment (buildings, architecture) or natural environment.

In your design folio you have the option to explore designing a poster, book cover, jewellery adornment, item of fashion. The National 4 course follows the same process with a Pass/Fail format.

Why will this subject be useful to me?

The skills and experiences you develop within this subject enable continued progression to further education or employment. Some of the possibilities are listed below.

- Digital Art - Concept artist for games and films - Animator, Videographer, Cinematographer, Visual Effects Supervisor, UX Designer.
- Sculptor (Ever seen the amazing work by artist Andy Scott who is responsible for the famous Kelpies sculpture. He also happens to be a previous pupil of Bellahouston Academy)
- Art and Design lecturer for College and/or University, Art and Design teacher.
- Fashion Designer, Jewellery Designer.
- Interior Designer
- Model Maker (Think of the fantastic work created by the stop motion artists responsible for Wallace and Gromit)
- Architect, Product Designer
- Graphic Designer, Sign Painter, Art Director for a studio
- Illustrator
- Art Conservationist (The dedicated individuals responsible for preserving the most famous artworks in the world), Curator for a Gallery/Museum

Photography

(National Progression Awards at Level 4 and Level 5)

This National Progression Award (NPA) allows pupils to develop knowledge and understanding in photography. There will be opportunity to complete written work also however this is limited.

It covers areas such as:

- understanding different photography genres and concepts
- practical skills in photographing people and places
- organising and working with photographic images

It would be beneficial if learners had a keen interest in photography or creative digital media. Ideally, learners should have some degree of aptitude for, and a genuine interest in, photography, that can be nurtured and developed.

Essential tools required for the course is a school iPad which pupils are issued with at the beginning of the year.

There is no exam for NPA Photography.

This course could provide a stepping stone towards selecting National 5 Art and Design if pupils have felt their skills and abilities have improved and feel more confident.

Hospitality – Practical Cookery

Course Title: Hospitality Practical Cookery

Level: National Qualifications

If you have an interest in food, cooking and enjoy being creative, then this is a course for you.

The aim of this course is to enable learners to:

- use a range of cookery skills, food preparation techniques and cookery processes.
- develop an understanding of ingredients from a variety of different sources, as well as responsible sourcing.
- select and use ingredients to produce and garnish or decorate dishes.
- develop an understanding of the impact of the choice of ingredients on health and wellbeing.
- work in a safe and hygienic manner.

You can then use your cookery knowledge and skills at home and in the wider community.

ASSESSMENTS:

You will do a lot of practical cooking using a variety of ingredients and some writing along the way. There are 3 units and a final assessment. The units are:

- Understanding and using ingredients
- Organisational skills for cooking
- Cookery skills, techniques and processes

This knowledge will be tested in the added value unit which is a practical assessment. You will be required to plan and cook a 2 course meal for 4 people. The pupils work hard to create wonderful dishes and each year attain excellent results.



Hospitality Practical Cookery opens up lots of job opportunities and is useful for careers in:

Teaching
Events Management
Catering
Health Promotion

Professional Cookery
Baking and Confectionery
Food Manufacturing
Hospitality

Hotel Management
Food Preparation
Food Service
Food Technology

Physical Education

COURSE TITLE: Physical Education National Qualification (PE NQ)

LEVEL: National 4 and 5

Have you enjoyed core PE? Do you like subjects where you don't have to sit behind a desk every day? If you have a good kit record, you want to develop your practical skills and you want to learn how to manage your emotions in a competitive environment then this is the course for you!



N4 ASSESSMENTS:

Performance Skills Unit

Pupils must demonstrate a comprehensive range of movement and performance skills in physical activities over two years. We have a wide range of activities on offer including a "games" option (basketball, football, hockey, badminton etc) and a more aesthetic course (trampolining, gymnastics, athletics). Pupils choose the sports they wish to want to participate in and are then assessed in their 2 strongest activities.

Factors Impacting Performance Unit

Pupils must:

1. Demonstrate knowledge and understanding of factors that impact on performance in physical activities.
2. Develop personal performance in physical activities.
3. Evaluate the performance development process.



The pupils will also run and officiate a sports tournament with their classmates, in order to achieve the **Added Value Unit**.

N5 COURSE ASSESSMENT:

The N5 assessment is a combination of a Practical Performance and a Portfolio, both worth 50% of your overall grade. Most of the work you will be asked to do will be practical, that is, in the gym or out on the fields and there are some written elements show knowledge and understanding. You will also complete various homework tasks.

It is not only a course intended for pupils who are thought of being "The best at PE". It is a course for pupils who are willing to work hard and learn how to analyse and evaluate performance. Most pupils enjoy the PE Course and return to study Higher PE. We have excellent results in the department and it opens up many job opportunities such as:

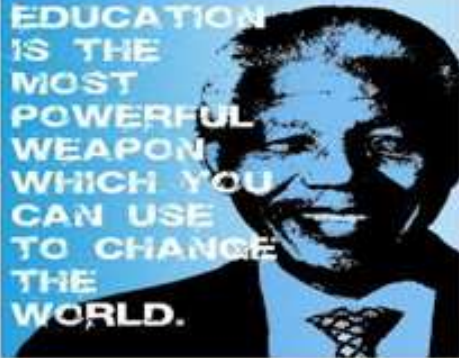
Police Fitness Instructor Armed Forces Teacher Physiotherapist
High Performance Coach Sports Scientist Sports Journalist ...and many more!

Modern Studies

Faculty of Humanities

MODERN STUDIES

EDUCATION IS THE MOST POWERFUL WEAPON WHICH YOU CAN USE TO CHANGE THE WORLD.



In Modern Studies, you will examine contemporary society and the world around you. You will become equipped with many transferable skills which will enable you to effectively contribute in a variety of events and activities throughout your life.

All our courses seek to encourage the formation of open, enquiring and tolerant attitudes. Students develop skills in critical-thinking, research, analysis and communication which allow them to participate in social and political issues as truly global citizens. At all times, the department aims to develop the full potential of each and every pupil to achieve highly performances in external examinations.

Modern Studies is an interesting and highly relevant subject that provides many opportunities to actively participate. Students who undertake this subject go on to become employed in many different fields including: Law, Journalism, Teaching, Police and Social Work.

Modern Studies will be offered at the following levels: National 4 and National 5.



Democracy in Scotland and the United Kingdom

Learners will develop knowledge and understanding of the main institutions and organisations which make up political life. They will develop an understanding of their rights and responsibilities in contemporary democratic political society.



Social Issues in the United Kingdom

Learners will focus on crime and the law. In the crime and the law context, learners will focus on the causes of crime, the impact of crime on individuals and society and the role of individuals, the police, the legal system and the state in tackling crime.



International Issues:

Learners will study contemporary society focusing on the socio/economic and political study of the USA.



Course Assessment:

Pupils must also complete an Added Value unit or an assignment. The examination at National 5 level is 2hr 20 minutes.



History

Faculty of Humanities

HISTORY

COURSE OUTLINE

In History, pupils will learn about:

SCOTTISH
HISTORY

BRITISH
HISTORY

EUROPEAN AND
WORLD HISTORY

TOPICS
WAR,
ZIS



STUDIED IN
THE SLAVE



54 HISTORY ARE THE
TRADE AND HITLER & A-



COURSE

ASSESSMENT

This course is available at National 4 or 5 levels. Pupils must also complete an Added Value unit or an Assignment. The examination at National 5 level is 2hr 20 minutes. Pupils who study history have the opportunity to take part in lots of different events:



Host events such as the Holocaust Memorial Day in Glasgow City Chambers.



Visit World War One trenches in Belgium & France.



Participate in group work, Debates, poster and model making.

POSSIBLE CAREER PROGRESSION

Law, Politics, Tourism, Teaching, Media, Police, Journalism, Banking, Research, Journalism Archaeology and many, many more!

Former History pupils are currently studying at the University of Glasgow, the University of Strathclyde and working in countries such as Italy. Studying History provides you with the opportunity to do many different things!

Universities and employers highly value History as a qualification!

Geography

Faculty of Humanities

GEOGRAPHY

Geography is a facilitating subject for entrance to University
The Russell group 2015

COURSE OUTLINE

In Geography, you will learn about Weather, Glaciation, maps, coasts, population, National parks, food production, disease, shopping, development and climate change.

COURSE ASSESSMENT

This course is available at National 4 or 5 levels.

Pupils must also complete an Added Value unit and/or an assignment. The examination at National 5 level is 2hrs 20 mins.

POSSIBLE CAREER PROGRESSION

With further qualifications or training you could become an urban designer or become a oil engineer. Other options include :

Geologist, development analyst, teacher, rural planner, environmental consultant, cartographer, weather analyst, GIS analyst, park ranger, travel agent, soil conservationist, landscape architect.

If none of these options appeal to you, there are plenty of other things you can do. The following celebrities all have geography degrees: Prince William, Michael Jordan, Nick Hodgson (drummer for the Kaiser Chiefs) rowers James Cracknell and Matthew Pinsent and wrestler Kurt Angle.

Geography is not only up to date and relevant, it is one of the most exciting, adventurous and valuable subjects to study today. A qualification in Geography is recognised for its academic 'robustness' and most importantly, it also helps young people into the world of work. I would encourage your child to choose a National in Geography. It meant a lot to me and it could mean a lot to them.

Michael Palin CBE
President—Royal Geographical Society



Year 2015

English

The National 3, 4 & 5 English Courses enables learners to develop their literacy skills and to **understand, analyse and evaluate** a range of texts, including Scottish texts, in the contexts of literature, language and media. The Course also enables learners to **create** and **produce** texts and to apply their knowledge and understanding of language.

There are two mandatory units:

- i) **Analysis and Evaluation**
- ii) **Creation and Production**

A Folio of Writing must be submitted. This consists of both examples of Expressive and Transactional writing. At National 5 this accounts for **30%** of the overall grade. The exam is worth **70%**.

The examination for National 5 requires pupils to sit three papers:

- i) Textual Analysis of a prescribed Scottish text
- ii) Critical Essay
- iii) Reading for Understanding, Analysis and Evaluation.
based on writing a report.

Media

Media qualifications at National 3, 4 & 5 provide

learners with opportunities to develop both knowledge of the media and the ability to **create** media content.

Learners understand and develop their media literacy skills and appreciate the opportunities and challenges that occur in the media industry.

There are two mandatory units:

i) Analysing Media Content

ii) Creating Media Content

An examination at National 5 accounts for 50% of a

pupil's overall grade. Planning for, and the creation of a Media product accounts for 50% also.

At National 3 & 4 all work is assessed by the class teacher.

Bellahouston Academy pupils regularly produce media products for local charities, work with the BBC School Report venture and can enter a variety of film-making competitions.

It is a subject for **inventive** pupils who wish to express themselves through screenwriting, filming and editing

Mathematics

The benefits of studying Mathematics:

- The *logical thinking, problem-solving* and *decision-making skills* you learn while studying mathematics are highly valued by many employers across a variety of job sectors.
- Without realising it, we use mathematical concepts every day and laws of mathematics govern everything around us.
- Mathematical qualifications are a common requirement for entry to most university and college courses.
- Learning maths is good for your brain in the same way that exercise is good for your body.
- Maths will help you with your finances and give you good problem-solving skills

Courses in Mathematics

National 5 Maths

- Expressions & Formulae
- Relationships
- Applications
- External SQA Assessment

National 4 Applications of Maths

- Numeracy
- Managing Finance & Statistics
- Geometry & Measures
- Internal Added Value Assessment

National 3 Applications of Maths

- Numeracy
- Manage Money & Data
- Shape, Space & Measures

Some Jobs in Mathematics

- Actuary
- Astronomer
- Chartered accountant
- Data analyst
- Investment analyst
- Secondary school teacher
- Software engineer
- Sound engineer
- Nurse
- Engineer
- Forensic Analyst
- Electrician

Note: You will be placed in the most appropriate course level according to your performance in S1 & S2 Maths.

French/Urdu



FRENCH/URDU



Course outline and levels

As part of your Broad General Education you will have the opportunity to continue with French or Urdu and/or choose to study Spanish or German in S3.

At the end of S2, if you pass all the assessments, you will receive a certificate from the SQA saying the you have passed the Life unit of the Modern Languages for Life and Work award. If you continue with a language in S3 you will have the opportunity to gain the full award.

In S4 you will start preparing for the National 4 or 5 Qualification depending on your ability. Both courses will allow you to build on your existing knowledge of French or Urdu, improve your skills and knowledge about language to pass the National Qualification and fully prepare you for further study of French/Urdu.

Both National 4 and 5 will cover the contexts of

- ◆ Society: including topics on family and friends, healthy lifestyle, home area, media and new technology, citizenship
- ◆ Learning: and different school systems
- ◆ Employability: including topics on part time jobs and employability skills
- ◆ Culture: including topics on holidays, films in the foreign language, cultural aspects and traditions.

Course Assessment guideline

National 4

To obtain the full Qualification you will need to pass 1 unit assessment in each language skill as well as prepare for the Added Value Unit, in which you will present a talk on a topic of your choice and respond to questions in the foreign language.

National 5

To obtain the full Qualification you will need to complete a writing assessment (externally assessed by SQA) as well as prepare for the Performance (Talking assessment, internally assessed). During S3 and S4 you will develop your language skills and exam techniques to allow you to feel fully prepared for the Course Assessment (external exam) which will take place in May (S4).



Our New Languages (National 3, 4 and National 5)

Spanish and German

As you will have studied another language other than French or Urdu in S2, you may decide that you would like to continue with this language and/or French / Urdu in S3. The Scottish government is promoting the learning of more than one language. As you will have already developed the skills necessary to learn a language, opting to study 2 or more languages is not as challenging as you might think.

Know a second language? Great, you're hired! If you have proven yourself to be a capable employee with just the right job skills AND you speak a foreign language such as Spanish and / or German, you are much more likely to land that job of your dreams than if you are monolingual. In fact, many jobs today require a minimum of basic proficiency in another language.

Depending on your ability you will be working towards National 3, 4 or 5 in S4.

Course Outline and Levels

National 3 will cover the contexts of

- ◆ Society: family, hobbies, media
- ◆ Learning: including topics on school subjects and learning languages
- ◆ Employability: including topics on future plans and jobs
- ◆ Culture: including topics on planning a trip, films in the foreign language, cultural aspects and traditions.

Course Assessment guideline

National 3

To obtain the full Qualification you will need to pass one unit assessment in each language skill.

National 4 and 5

Please refer to the previous page for the course outline and assessment guidelines for Languages at National 4 and 5.



Spanish

Many of you spend your holidays in a Spanish speaking country, so why not show off your language skills in real meaningful situations, by choosing to do Spanish. If you have already studied French, then Spanish has many similarities and you will be able to use your knowledge about language to help you learn new vocabulary and new structures. The classes are lively and fun - Barcelona here we come!

Some facts:

- Spanish is becoming more and more important with regards to business.
- Learning Spanish will enable you to better communicate with Spanish speaking employees or co-workers.
- In Europe, Spanish is the second most popular second language, after English.
- Spanish is the fourth most commonly spoken language in the world.
- It is an official language on 4 continents and the mother tongue in 21 countries.

German

German is definitely the way to go if you want easier pronunciation as many of the words and structures are very similar to English. Many of you will take part in German taster sessions in March and hopefully these workshops will show you the importance of studying German and the benefits this language can bring to both your personal and professional lives. Trips to the Christmas markets in Berlin will also allow you to try out your German with the locals.



Some facts:

- German is the most widely spoken language in Europe
- German is the second most commonly used scientific language
- Germany is the economic powerhouse of the European Union
- A wide range of important websites are in German
- Companies like BMW, Daimler, Siemens, Lufthansa, SAP, Bosch, Infineon, BASF, and many others need international partners
- The Japanese, who have the 2nd most powerful economy in the world, understand the business advantages that a knowledge of German will bring them: 68% of Japanese students study German

Drama



National 3 - 5 Drama

Drama is a practical and active subject with an emphasis on creativity, exploration and group work. Working collaboratively is an important aspect and learners will have the opportunity to devise and present a piece of theatre as part of a team.

Students can specialise in production roles such as acting, lighting, sound, set, costume design and Makeup and Hair. Although acting is a initial requirement of the course, pupils with an interest in technical theatre can be assessed under a production role.

60% of the final grade is a practical assessment carried out before the exam diet in May.



Career Opportunities:

Recent research has shown that young people who leave school with a Drama qualification have a greater likelihood of achieving their chosen career path . A lot of money can be made in Drama - the arts and entertainment industry is Scotland's biggest growing economy (2016).

The skills taught are valuable in a wide range of career sectors including communications and media, writing, teaching, medicine, nursing, law, police and management. The disciplined skills you will learn are highly sought after in today's world: such as communication, enterprise and creativity.

Music



National 3 - 5 Music

In National Music you will have the opportunity to choose two instruments to learn for the Performing Skills element of the course. Instruments include Voice, Piano, Guitar, Drums, Keyboard, Brass and Woodwind.

It doesn't matter if you have never played an instrument before as we have specialist instructors who visit the school weekly to assist you in learning.

You will work both independently and in groups as you try out different pieces of music. You will also get the chance to study a variety of different styles such as Classical music, Jazz, rapping and rock music within the Popular Music unit as well as other music from all around the world.



Career Opportunities:

A lot of money can be made in music - the arts and entertainment industry is Scotland's biggest growing economy (2016). As a qualification in music is recognised as requiring discipline, hard work and interpersonal skills other university courses and careers value the subject. Pupils with a qualification in music can also go on to Law, Medicine, Teaching, Accountancy, Engineering and the Police and Public Services.

CHEMISTRY

We live in a chemical world and without the knowledge of chemistry it is impossible to understand fully how that world functions. In addition, Chemistry is about making new materials like medicines, plastics, renewable fuels, dyes and microchips, and about solving world problems like pollution, hunger and disease.

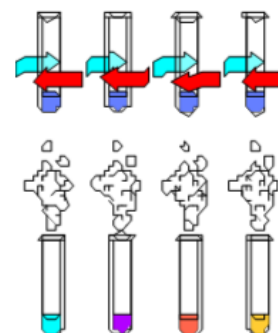


WHY STUDY CHEMISTRY ?

Chemistry is the subject that links the other Sciences, and a Chemistry qualification is an excellent training for almost any occupation or profession. So, as well as following careers in medicine, food technology, chemical engineering, agriculture, in fact almost any field of science and technology, many chemists become managers, designers, accountants and even Prime Ministers!

- The course you will take in Chemistry will depend upon the grades you achieve throughout the broad general education in Science from S1 to S2.

Chemistry is offered as two distinct levels:
National 4 and National 5.



Successful completion of all National 4 internal assessment will allow progression to National 5.
Successful completion of all internal assessments AND recording an A-band or B-band pass in the SQA examination will allow progress to Higher Chemistry.

COURSE CONTENT

Although there are some topics that are peculiar to National 5, both courses follow essentially the same curriculum: Rates of Reaction, Atomic Structure, Formulae, Energy, Organic Chemistry, Metals, Plastics, Fertilisers, Chemical Analysis, and Nuclear Chemistry.

Faculty of Science
PHYSICS



WHY CHOOSE PHYSICS?

If you have a passion for understanding how things work, then Physics is for you! Our world needs people who have the skills and abilities to take an active role in the new high-technology industries.

Micro-electronics, Robotics, Laser Technology, Computer Designs - the possibilities are only limited by your imagination.

Physics is essential to gain access to certain jobs and Higher Education Courses e.g. Medical Physics, Architecture and Engineering. Physics graduates on average earn £3000 per year more than other graduates, even only one year into work.

The new National 4 and National 5 courses cover the same areas, but National 5 develops better understanding and is more challenging than National 4. National 4 is internally assessed whereas National 5 will be assessed externally.

The topics covered are:

Electricity & Energy: Here we look at how electricity is generated and the cause of electromagnetism. We learn how practical circuits and electronics work, as well as discovering how gases behave.

Dynamics & Space: Here we study movement, both on Earth and in orbit.

Waves & Radiation: Here we learn how to describe waves and the two most important types of waves in our lives : electromagnetic and sound waves, as well as what radiation is and how we use it.



National 4 and National 5 have an added value unit which allows the learner to choose a topic of interest e.g. new telescopes, and research them, looking at new development, then presenting their findings.

Success at National 4 level will allow you to progress to take Physics at National 5. The course you take in Physics will depend upon your grades from S1–S2 Science and your ability in Mathematics. Successfully passing the National 5 exam with an A or B-band pass will allow progress to Higher Physics in S5.

BIOLOGY

Biology is the study of life. It involves understanding and finding solutions to famine, global warming, pollution, extinction and disease.

People who choose Biology aspire to become doctors, dentists, nurses, physiotherapists, personal trainers, sports scientists, beauticians, ophthalmologists, radiographers, teachers, care assistants, forestry workers and many more careers.



You will study the structure of living things and how they work and how they interact with each other and their surroundings.

The Biology course is offered at 2 distinct levels; National 4 and National 5 and the course you take will depend upon the grades you achieved over S1 and S2 Science.

The Units titles are the same in both courses but the content differs as does the difficulty of assessment.



Cell Biology

Each unit is internally assessed using SQA materials and must be passed in order to pass the course. Only National 5 Biology has an external exam. The National 5 course also has an assignment which must be completed to pass the course and contributes 20% of the final grade (the other 80% being made up by the exam).



Multicellular

In both types of course there are small tests every so often to let students know what progress they are making, and there is regular homework. You are also tested to see how well you can carry out Biology Experiments. There is a large amount of experimental work, field studies and the opportunity to observe or participate in organ dissection. Whole organism dissection is no longer carried out in Biology.

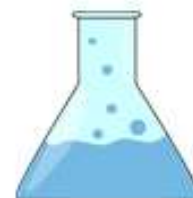


Life on Earth

Progression

National 4 students who pass all of their internal assessments will progress to taking National 5 Biology in S5. National 5 students who pass all of their internal assessments, AND achieve an A-band pass or a B-band pass in their SQA exams will progress to Higher Human Biology in S5.

Faculty of Science
N4 SCIENCE



WHY CHOOSE N4 SCIENCE?

If you have a passion for understanding how the world works and have a recommendation from your current science teacher, then you may choose N4 Science.

It is internally assessed but requires all 3 curricular units to be passed by exam and the added value unit passed through submission of course work.

The topics covered are;

Unit 1 - Fragile Earth: Conflicts, benefits and solutions to the issues surrounding the uses of water, food, energy and metals by humans in an expanding population whilst space and resources are running out.

Unit 2 Human Health: What is health? - How to keep healthy and understanding the impact of nutrition on health.

Threats to health and preventative measure including the understanding of the immune system and the use of vaccines.

Health claims - review articles and information in the media.

Unit 3 Applications of Science: Telecommunications - principles and applications of telecommunications, uses and properties of electromagnetic waves.

Materials - properties of substances, properties and uses of novel materials, and impacts, risks and benefits of their use.

Risks and health and safety - measures associated with science at work including chemical, radiation and electrical risks and safety.



The National 4 added value unit allows the learner to choose a topic of interest from any part of the course, research them, look at new developments and then presenting their findings.

Success at National 4 level will allow you to progress to take Biology, Chemistry, Physics or Skills for work-Health Sector at National 5 level in S5.



Accounting

Accountancy is the language of business, and may just be the career for you! Without highly qualified accountants to provide information to management, organisations may perform less successfully than they otherwise would. The course may be of greatest appeal to those learners who enjoy, or wish to take advantage of, **numeracy-based learning opportunities**. The course will also allow learners the opportunity to use software packages to complete simulated business assignments. The focus is on developing problem-solving skills.

At N5 level in Accounting, you will study a range of topics including the following:

- Double entry book-keeping to record financial transactions;
- Preparation of Income Statements to determine whether a business has made a profit or a loss;
- Statements of Financial Position to value how much a business is worth;
- Cash Budgets to ensure the best use of money;
- Inventory Control – to monitor a business's stock;
- Analysis of a business's financial performance over time using accounting ratios.



This is a highly demanding and challenging course and suited to those pupils who **both** enjoy and have high attainment in Business Management and Mathematics.

Career Options



Job opportunities to suit all ranges of ability from the highly academic to the more practical student – Chartered Accountant, Auditors, Bank Clerks, Insurance Clerks, Accounts, Stockroom Clerk, Cost Accountant, Forensic Accountant, Book-Keeper, Accounts Assistant, Business Analyst, Credit Control Manager, Business Education Teacher, Auditor.

Administration & IT

The Administration & IT course is designed to give you the skills you need to work in the modern business environment.

Why study Administration & IT?

Strong IT skills are as important to employers as skills in literacy and numeracy, and employers emphasise the importance of having **IT Literacy**. Succeeding in Administration & IT can enable you to demonstrate this ability, and can have a hugely positive effect on job prospects. You will also learn valuable skills that can be applied to all school subjects, as well as courses of further study and in the world of work.

Being able to use computers and Information Technology is an essential skill for all young people as the key to make you **employable in any field**. All jobs that you apply for **require different types and levels of IT and digital skills**.

What will you study?

You will learn about the important role of Administration & IT in any organisation and you will continue to enhance your own IT skills by building on what you have learned in S1/2. Being a practical subject, Administration & IT will give you opportunities to demonstrate the skills you have learned by organising and supporting events.

How will you learn?

You will be encouraged to develop your skills in IT by carrying out administrative tasks such as using the Internet, using multimedia applications, using Desk Top Publishing software, creating and maintaining spread sheets and databases and producing a variety of business documents. You will become competent in the use of various business software packages.

What careers does it provide?

This course provides a platform for students to further their business education at college/university, or proceed directly into employment. Knowing how businesses work enables you to apply your skills to a wide range of business activities. The skills you develop in the Administration and IT course are used in many careers.

There is a current shortage of skills in Administration & IT, as this is a growth area and skilled young people are required to fill jobs



Business Management

Why study this subject?

Business plays a vital role in our society. We all rely on businesses to create wealth and well-being, prosperity, jobs and choices; so it is essential that society has effective businesses and business managers. The subject includes lots of **decision making and problem solving activities** based on real businesses and the current economic environment. You will also learn **vital skills for work**.



What will you study?

We focus on key areas such as

- Understanding Business
- Marketing and operations
- Finance and Human Resources

How will you learn?

You will be encouraged to develop your descriptive and analytical skills by considering a wide variety of business problems and providing correct solutions. You will be asked to assess business situations by using real and simulated case study materials.

The assignment segment of the course will require you to collect, analyse and evaluate business information to reach conclusions and produce a report relating to your chosen context.



Why is Business Management a Good Career Choice?



What careers does it provide?

A qualification in Business **can lead directly into employment** or provide a platform to enter many **courses at university or college**.

There are many areas where you could specialise:

Retail Management, Events Management, Digital Marketing, Operations (Production and Distribution), Financial Management, Human Resource Management, Accounting and many more.

Design! & MANUFACTURE

Why study this subject?

Design and Manufacture develops the skills, knowledge and understanding required to design and make products. This is a very rewarding subject as there is scope for creativity and opportunities to manufacture with wood, metal and plastic. You will also learn about the impact of design and manufacturing technologies on our society and environment.



What will you study?

Working as a designer, you will produce ideas for products and using graphic presentation techniques you will present your designs as a design proposal that can be manufactured. You will study modern materials and manufacturing processes which will help you to develop your designs and plan their manufacture.

You will also make models of your designs, prior to actually making them, with modelling materials or 3D computer models to test and to visualise your designs.

How will you be taught?

You will work in groups and individually on different tasks. You will produce written work, research information and drawings. Just like modern designers, you will use a range of computer generated drawing techniques, sketching techniques and make 3D models to explain your designs. You will work in a workshop to manufacture the models or products you design.



What career opportunities does it provide?

Design and Manufacture is a subject which offers many different career paths. Pupils with a creative flair may go on to become Product Designers, Interior Designers, Fashion Designers, Packaging Designer or work in Visual Merchandising (shop display). For those who are interested in a more technical career, the course is a good introduction to manufacturing or factory work such as Production Operator, Engineer, or Mechanic. It is also a useful course to lead into careers in advertising, selling and marketing products. The practical element of the course can lead into a career in Jewellery, Architecture, Film Set Production, Furniture Designer/Maker or 3D Model Maker.



GRAPHIC COMMUNICATION

Why study this subject?

This course is designed to develop and communicate ideas graphically, use graphic software to visually communicate ideas. The course focuses on real products and develops design, creativity and the effect of graphic communication on our environment and society.



What will you study?

Be able to understand 2D and 3D graphics. Use drawing equipment and computer aided drawing software. Create and develop a project brief that allows you to use the skills developed in the coursework to produce promotional displays and illustrations. You will also produce physical 3D promotional displays undertaking aspects as if you were a Graphic Designer.

How will you be taught?

You will use a variety of techniques and media to assist your knowledge and skills development. From manual graphics work to Computer Aided Drawing software to colour illustrations and 3D Modelling techniques. You will produce within a theme; preliminary graphics, production graphics, rendered 3D models and promotional graphics to display your work.



What career opportunities does it provide?

Graphic Communication offers a variety of different career pathways. Areas such as; Architecture, Computing and ICT, Graphic Design, Illustration, Town Planning, Industrial Design, Product Designer, Surveying, Civil Engineering, Electronic Engineering, Environmental Engineering, Advertising, Marketing, Car Design, Web Design, Interior Design, Media and Communication, Public Relations, Aeronautical Engineering, Computer Animation, Computer Games Design and Marine Engineering.

Computing Science

Why Study this subject?

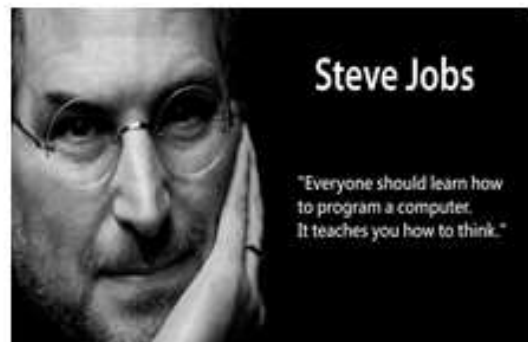
It is now widely accepted that **computing skills** are a necessity.

We all rely on digital technology to go about our daily lives, and the modern world of work would not function without it, not just in the 'digital economy' but in the processes behind the production and supply of all goods and services. Individuals with high levels of skills in Computing Science and Computer Programming will **always** be in demand and can command some of the highest salaries on the planet.

Computing Science can be studied at National 4 or National 5 level in S3/S4, moving on to National 5, Higher, Advanced Higher, Cyber Security or Computer Games Development in S5/S6.

Some of the topics studied include:

- ♦ Web Design and Development using HTML, CSS and Javascript
- ♦ Software Design and Development using Visual Studio
- ♦ Database Design and Development using Microsoft Access and Structured Query Language (SQL)
- ♦ Computer Structure, Data Representation



This course is geared significantly towards programming / coding skills. It is not an IT course!

What career opportunities does it provide?

Computing Science is an emerging profession. You could be working in one of the most dynamic, fast moving, innovative sectors where your skills can make a huge impact. You would not be limited to working within the Computing Science Industry; many other sectors such as retail, music or hospitality employ Computing Science professionals involving business thinking and creativity. **This opens up opportunities to work globally.**



COMPUTER GAMES DEVELOPMENT



Why Study this subject?

Would you like to turn an interest into a career? The computer games industry worldwide raises **double** the revenue of the international film industry, and **Scotland** is one of the leading players.

The SQA Computer Games Development course is a recognition that this successful industry requires top quality individuals who have creative as well as programming skills.

This course will enable candidates to:

- investigate the computing gaming industry / genres / hardware / trends and emerging technologies
- gain an understanding of underlying concepts and the fundamental principles involved in digital gaming planning and design
- gain the knowledge and skills required in the creation of media assets and games development
- work with others to test a game and give constructive feedback
- collaborate with others in an enterprise activity to promote / market a game

The **Computer Games Development** course is a progressive one, allowing the candidate to achieve from SQA Levels 4/5 (CfE National 4/5 equivalent) up to Level 6 (Higher) in S5/6. It is a trusted and recognized Qualification because it was developed by practitioners from industry and are supported by the relevant sector skills council (SSC).



CAREERS

Career Options in Computer Games Development

In Scotland there are more than 50 companies associated with the Games Development Industry, mostly based in Dundee, Edinburgh and Glasgow. USA and Japan are also world centres for the Computer Gaming Industry where many opportunities exist for the best games developers. The skills acquired in this course can also be transferred to other creative digital industries such as virtual reality, video and audio recording / editing, 2D / 3D graphic design.

digital media

Digital Media

The National Certificate (NC) in Digital Media is a National Progression Award for individuals who require a non-advanced qualification in computing and information technology. Set at SCQF levels 4 or 5 for S3-S4 (National 4/National 5 equivalent) and progresses up to level 6 (Higher equivalent) in S5-S6, it provides a foundation in the knowledge and skills of computing and IT that will be necessary for candidates who wish to specialise in aspects of computing or related subjects. All of the Digital Media course components are internally assessed with no formal examination required to progress.

Digital Media will enable candidates to become competent in selecting and using computer systems and applications to find solutions to problems, and in acquiring and evaluating information from the internet.

Young people who select **Digital Media** will gain the skills, certificated at their particular level, to progress to further study in computing and IT subjects or for current and future employment. This qualification could open up opportunities for employment in the computing and IT sector, perhaps in areas such as multimedia, networking, computer games and business IT.

All candidates will develop skills relevant for the modern age.

Possible careers in the Digital Media Industry include:

Game programmer, Game designer, Level designer, Game producer, Game artist, Game tester, Project Manager, 2D Animator/Illustrator, 3D Animator/Illustrator, Video Effects Animator, Engine Programmers, Flash Games Developer, Systems Administrator - Multiplayer Game Servers, Web Developer and Quality Assurance Tester.

Skills in design, animation, project management and creativity are transferable across many other disciplines. Pupils will also develop essential employability skills in Problem Solving, Information Technology, Working with Others, Numeracy and Communication.

