



Course Title
ART & DESIGN
Level
Higher
Units Covered
<p>The Art & Design course consists of three elements: Expressive, Design and Critical Analysis.</p> <p>An Expressive Portfolio with a focus on observational drawing, media handling and awareness of the visual elements. Pupils will choose a theme and genre to work within.</p> <p>A Design Portfolio where pupils are tasked with designing a piece of 2D or 3D design; challenging their ability to answer a brief, problem-solve and work with materials.</p> <p>And a Critical Analysis Unit which involves describing and explaining the work of artists and designers.</p> <p>Pupils are awarded a high degree of choice and personalization during the course. It is hoped that prior learning in S1-S3 will have allowed pupils to find their strengths and areas of interest within Art & Design and build upon these during Senior Phase.</p> <p>Assessment: National 4 (Level 4) is internally assessed, with no exam. National 5 (Level 5) is externally assessed, with an exam. The Expressive & Design Portfolios account for 80% and the Exam (Critical Analysis) is weighted at 20%. Higher (Level 6) is externally assessed, with an exam. The Expressive & Design Portfolios account for 77% and the Exam (Critical Analysis) is weighted at 23%.</p>
Progression
Advanced Higher Art & Design Further/Higher Education



Course Title

Administration and IT

Level

Higher

Units Covered

The course helps develop advanced administrative skills and digital literacy, enabling you to contribute to the effective functioning of organisations in supervisory administrative positions.

Candidates will develop an understanding of:

- The importance of administration theory in the workplace – e.g. factors contributing to an efficient administrative function such as time and task management, effective teams, complying with workplace legislation, the impact of digital technologies, and customer care.
- Advanced digital literacy skills such as databases, spreadsheets, word processing and emerging technologies - to organise/manage information; use functions to analyse, process and manage information, in order to create and edit complex business documents; understand the barriers to communication and ways of overcoming them to ensure communication is effective; understand how to maintain the security and confidentiality of information.

Assessment is both a practical assignment and written exam.

The course is suitable for candidates who are interested in the management functions of administration and advanced uses of digital technology, and who want to develop these skills further.

Progression

Further/Higher Education



Course Title

Applications of Mathematics

Level

SCQF Level 6 (Higher)

Units Covered

This brand new course develops skills that employers want: analysing statistical and mathematical information, solving problems, assessing risk and making informed decisions by using critical and logical thinking. It aims to develop mathematical skills that can be applied across different fields and in real life.

The course comprises of four units:

- Mathematical Modelling,
- Statistics & Probability
- Finance
- Planning & Decision Making.

The course is assessed by a statistics project and a final exam.

Entry requirements - A secure pass in National 5 Applications of Maths or National 5 Maths.

Progression

Potential careers/study include science, business management, research, insurance, social sciences.

Further/Higher Education



Course Title
BUSINESS MANAGEMENT
Level
Higher
Units Covered
This course consists of three units: (i) Understanding Business (ii) Management of People and Finance and (iii) Management of Marketing and Operations. There is an assignment (marked externally and worth 30 marks) that researches a business of choice. There is also an external exam worth 70 marks. The course will assist pupils to develop a detailed understanding of the types of organisations within contemporary industry and how they operate and ensure their business is successful.
Progression
Further/Higher Education

**Course Title****CHEMISTRY****Level**

Higher

Units Covered

The course develops learners' curiosity, interest and enthusiasm for chemistry in a range of contexts. The skills of scientific inquiry and investigation are developed throughout the Course, and the relevance of chemistry is highlighted by the study of the applications of chemistry in everyday contexts.

Chemistry, the study of matter and its interactions, contributes essential knowledge and understanding across all aspects of our lives. Chemistry explains the links between the particulate nature of matter and the macroscopic properties of the world.

This course encourages resilience, which leads to becoming a confident individual. Successful learners in chemistry think creatively, analyse and solve problems. Chemistry can produce responsible citizens through studying the impact it makes on developing sustainability and its effect on the environment, society, and their own and others' lives.

It also provides opportunities for learners to recognise the impact chemistry makes on developing sustainability, and its effects on the environment, on society and on the lives of themselves and others.

The course covers four units –

Chemical Changes and Structure - controlling reaction rates and periodic trends, and strengthens the learner's ability to make reasoned evaluations by recognising underlying patterns and principles. Learners will investigate collision theory and the use of catalysts in reactions. Learners will explore the concept of electronegativity and intra-molecular and intermolecular forces. The connection between bonding and a material's physical properties is investigated.

Researching Chemistry - the key skills necessary to undertake research. Learners will research the relevance of chemical theory to everyday life by exploring the chemistry behind a topical issue. Learners will develop the key skills associated with collecting and synthesising information from a number of different sources. Equipped with the knowledge of common chemistry apparatus and techniques, they will plan and undertake a practical investigation related to a topical issue.

Nature's Chemistry - organic chemistry within the context of the chemistry of food and the chemistry of everyday consumer products, soaps, detergents, fragrances and skincare. The relationship between the structure of organic compounds, their physical and chemical properties and their uses are investigated. Key functional groups and types of organic reaction are covered.

Chemistry in Society - the principles of physical chemistry which allow a chemical process to be taken from the researcher's bench through to industrial production. Learners will calculate quantities of reagents and products, percentage yield and the

Ready, Respectful, Safe



atom economy of processes. They will develop skills to manipulate dynamic equilibria and predict enthalpy changes. Learners will investigate the ability of substances to act as oxidising or reducing agents and their use in analytical chemistry through the context of volumetric titrations. Learners will use analytical chemistry to determine the purity of reagents and products.

Learning is tracked through ongoing assessments within each unit. The final 2.5 hour exam contributes 80% of the eventual grade, with the other 20% from an externally marked assignment completed within class.

Progression

Advanced Higher Chemistry
Further/Higher Education



Course Title

COMPUTING SCIENCE

Level

Higher

Units Covered

If you like puzzles, this is the course for you. You will be able to demonstrate your problem-solving skills by providing coding solutions, using Visual Basic/Python, SQL (Databases), HTML and CSS (Web pages). The assessment is based on an assignment where you demonstrate your Practical Skills (externally assessed) and an exam.

The course consists of four units:

Computer Systems – You will develop your understanding of how data and instructions are stored in binary form and factors affecting system performance. You will gain an awareness of the environmental impact of intelligent systems, as well as the security risks (e.g. Cookies and DDOS attacks), precautions and laws that can protect computer systems.

Software Design and Development – You will use appropriate modular software development environments (Visual Basic/Python) to learn advanced concepts and practical problem-solving skills. You will learn how to read into a program, large files of data (e.g. Grand Prix results, RSPB Birdwatch), manipulate the data and provide appropriate output.

Database Design and Development – You will learn how to create SQL code that powers databases business uses such as Amazon, British Airways, etc. You will develop practical and problem-solving skills through a range of tasks involving creating and querying databases using SQL code.

Web Design and Development – You will use web page development tools and code such as HTML (Hyper Text Mark-Up Language) to structure a web page and CSS (Cascading Style Sheets) to create a consistent look and feel to the pages.

Progression

Advanced Higher Computing Science
Further/Higher Education



Course Title

ENGINEERING SCIENCE

Level

Higher

Units Covered

Engineering brings together elements of technology, science and mathematics, and applies these to real-world challenges. This course provides an excellent opportunity to make links across learning in the senior phase.

The course encourages candidates to become successful, responsible and creative in using technologies and to develop a range of qualities, including flexibility, perseverance, confidence and enterprise.

Engineering shapes the world in which we live and its future. Engineers play key roles in meeting the needs of society in fields that include climate change, medicine, IT and transport.

The course provides a broad and challenging exploration of engineering, enabling candidates to:

- ◆ extend and apply knowledge and understanding of key engineering concepts, principles and practice
- ◆ understand the relationships between engineering, mathematics and science
- ◆ apply analysis, design, construction and evaluation to a range of engineering problems with some complex features
- ◆ communicate engineering concepts clearly and concisely, using appropriate terminology
- ◆ develop a greater understanding of the role and impact of engineering in changing and influencing our environment and society

The course develops skills in three main areas. Candidates are able to apply these skills through a range of contexts, within the broad discipline of engineering.

Engineering contexts and challenges

Candidates develop a deep understanding of engineering concepts by exploring a range of engineering problems with some complex features, and their solutions. This allows them to explore some existing and emerging technologies and challenges, and to consider implications relating to the environment, sustainable development, and economic and social issues.

Electronics and control

Candidates explore an appropriate range of key concepts and devices used in electronic control systems, including analogue, digital and programmable systems. They develop skills in problem solving and evaluating through simulation, practical projects and investigative tasks across a range of contexts.

Mechanisms and structures

Candidates develop a deep understanding of mechanisms and structures. They develop skills in problem solving and evaluating through simulation, practical projects and

Ready, Respectful, Safe



investigative tasks across a range of contexts.

The course is assessed by an examination paper and an assignment, both of which are marked by Scottish Qualifications Authority markers

Progression

Further/Higher Education



Course Title

ENGLISH

Level

Higher

Units Covered

Purpose and aims

The course provides candidates with the opportunity to develop the skills of reading, writing, talking and listening in order to understand and to use language which is detailed and complex in nature.

The course offers candidates opportunities to develop and extend a wide range of skills with growing independence. The main aims of the course are to enable candidates to develop the ability to:

- ◆ read, write, talk and listen in detailed and complex contexts, as appropriate to purpose and audience
- ◆ understand, analyse and evaluate detailed and complex texts, including Scottish texts, in the contexts of literature, language and the media
- ◆ create and produce written texts and spoken language, as appropriate to purpose, audience and context, through the application of knowledge and understanding of detailed and complex language

The broad structure of the course assessment allows these skills to be demonstrated in a balanced way.

Candidates develop complex language skills allowing them to engage with and to process detailed and complex ideas, opinions, information, language forms and use, and to increase their ability to learn with independence.

Course assessment

The course assessment meets the key purposes and aims of the course by addressing:

- ◆ breadth - drawing on knowledge and skills from across the course
- ◆ challenge - requiring greater depth or extension of knowledge and/or skills
- ◆ application - requiring application of knowledge and/or skills in practical or theoretical contexts as appropriate

This enables candidates to demonstrate the ability to:

- ◆ understand, analyse and evaluate two unseen detailed and complex written texts. This is assessed by a question paper
- ◆ understand, analyse and evaluate detailed and complex texts in the contexts of literature, language and/or media. This is assessed by a question paper
- ◆ apply language skills in the creation of texts. This is assessed through the portfolio-writing
- ◆ produce detailed and complex spoken language through the demonstration of talking and listening skills. This is assessed through the performance-spoken language

The course is for those who wish to develop their language and communication skills through the exploration and creation of detailed and complex language, literature

Ready, Respectful, Safe



and media texts. It provides candidates with opportunities to develop aspects of learning which are transferable across many disciplines. These aspects include creative and critical thinking, spoken and written communication skills, interpersonal and team-working skills, and independent learning. The course promotes cultural and intellectual engagement and curiosity, and encourages lifelong learning.

The course is designed for those who are at the stage in their learning when they are ready to develop language and communication skills at SCQF level 6. They are likely to have gained an award in National 5 English.

Progression

Advanced Higher English
Level 6 units – Literature 1; Communication (NC)
Further/Higher Education



Course Title
Creation and Production; Analysis and Evaluation
Level
Level 6 units
Units Covered
<p>Creation and Production: Unit outline</p> <p>The general aim of this Unit is to provide learners with the opportunity to develop and extend talking and writing skills in a wide range of contexts. Learners develop the skills needed to create and produce detailed and complex texts in both written and oral forms.</p> <p>Learners who complete this Unit will be able to:</p> <ol style="list-style-type: none"> 1 Create and produce detailed and complex written texts 2 Participate actively in detailed and complex spoken activities <p>For this Unit, learners will be required to provide evidence of their writing and talking skills by:</p> <ul style="list-style-type: none"> ◆ creating at least one written text using detailed and complex written language ◆ participating in at least one spoken activity using detailed and complex language <p>Analysis and Evaluation: Unit outline</p> <p>The general aim of this Unit is to provide learners with the opportunity to develop and extend reading and listening skills. Learners develop the skills needed to understand, analyse and evaluate a wide range of detailed and complex texts in the contexts of literature, language and media.</p> <p>Learners who complete this Unit will be able to:</p> <ol style="list-style-type: none"> 1 Understand, analyse and evaluate detailed and complex written texts 2 Understand, analyse and evaluate detailed and complex spoken language <p>For this Unit, learners will be required to provide evidence of their reading and listening skills by:</p> <ul style="list-style-type: none"> ◆ understanding, analysing and evaluating at least one detailed and complex written text ◆ understanding, analysing and evaluating at least one detailed and complex spoken language activity <p>Entry requirements for Level 6 Units</p> <p>Learners would normally be expected to have attained the skills, knowledge and understanding required by one or more of the following or equivalent qualifications and/or experience:</p> <ul style="list-style-type: none"> ◆ National 5 English Course or relevant Units ◆ Literacy (National 5)
Progression
Higher English Level 6 units – Literature 1; Communication (NC) Further/Higher Education



Course Title

LITERATURE 1

Level

Level 6 unit

Units Covered

Unit Outline

This unit is concerned with the reading of literature and with responding critically to that reading. Candidates will read and learn about a variety of complex literary texts from different genres. A high level of analytical reading skill will be developed as tests are studied, analysed and evaluated.

On successful completion of this unit the learner will be able to:

1. Analyse and evaluate literary texts from different genres
2. Critically respond to an unseen text

Entry requirements for Level 6 Units

Learners would normally be expected to have attained one of the following, or equivalent:

- National 5 English Course or relevant component Units

Progression

Level 6 units – Creation and Production; Analysis and Evaluation
Higher English
Further/Higher Education



Course Title

COMMUNICATION NC

Level

Level 6 unit

Units Covered

Unit Outline

This unit is designed to provide the learner with skills in understanding, analysing, evaluating and using complex, formal English in a range of written and spoken forms.

On successful completion of this unit the learner will be able to:

1. Analyse and evaluate literary texts from different genres
2. Critically respond to an unseen text

Entry requirements for Level 6 Units

Learners would normally be expected to have attained one of the following, or equivalent:

- National 5 English Course or relevant component Units
- Level 6 units – Creation and Production; Analysis and Evaluation

Progression

Level 6 units – Creation and Production; Analysis and Evaluation

Higher English

Further/Higher Education



Course Title

GEOGRAPHY

Level

Higher

Units Covered

Students study 4 units in Higher Geography.

- Unit 1 - Physical Environments - Topics covered are Glaciation, Coasts, Atmosphere, Soils and Rural Land Use.
- Unit 2 - Human Environments - Topics covered are Population, Migration, Urban Studies and Rural Studies.
- Unit 3 - Environmental Interactions - Topics covered are Development and Health and Global Climate Change.
- Unit 4 - Application of Geographical Skills - the main focus here is the interpretation of maps, graphs, diagrams and photographs.

There is an Assignment which is written up under exam conditions. This is an investigation based on the data collected during a local field trip. This is worth 30 marks and counts toward the final grade. There is an external exam in May.

Many skills are covered in the course – data handling, extracting information from sources, map skills and interpretation, field work skills, research skills, report writing, recall of knowledge and drawing and interpreting graphs.

Many skills are covered in the course - data handling, extracting information from sources, map skills and interpretation, field work skills, research skills, report writing, recall of knowledge and drawing and interpreting graphs.

Progression

Further/Higher Education



Course Title

GRAPHIC COMMUNICATION

Level

Higher

Units Covered

This course offers a broad and creative experience in the subject of graphic communication and graphic design, providing progression from National 5 Graphic Communication. The course allows learners to broaden and deepen their skills base and to widen their horizons regarding a range of vocations and careers. It provides opportunities to further acquire and develop the attributes and capabilities of the four capacities, including: creativity, flexibility and adaptability; enthusiasm and a willingness to learn; perseverance, independence and resilience; responsibility and reliability; and confidence and enterprise. Learners are encouraged to exercise imagination, creativity and logical thinking. They will develop an awareness of graphic communication as an international language. They will find that the skills they acquire by successfully completing this course will be invaluable for learning, for life and for the world of work. The course provides skills that are complementary to other curricular areas, such as expressive arts, sciences, and mathematics. It provides skills that are valuable for learners in the other areas of study in the technologies.

The course provides opportunities for learners to initiate and develop their own ideas graphically. It allows them to develop skills in reading and interpreting graphics produced by others. Learners will continue to develop graphic awareness in often complex graphic situations thus expanding their visual literacy. The course is practical, exploratory and experiential in nature. It combines elements of creativity and communicating for visual impact with elements of protocol and an appreciation of the importance of graphic communication standards, where these are appropriate. The Course allows learners to engage with technologies. It allows learners to consider the impact that graphic communication technologies have on our environment and society. The aims of the Course are to enable learners to develop:

- skills in graphic communication techniques, including the use of equipment, graphics materials and software
- creativity in the production of graphic communications to produce visual impact in meeting a specified purpose
- skills in evaluating the effectiveness of graphics in communicating and meeting their purpose
- an understanding of graphic communication standards protocols and conventions, where these apply
- an understanding of the impact of graphic communication technologies on our environment and society

Progression

Advanced Higher Graphic Communication
Further/Higher Education



Course Title
HISTORY
Level
Higher
Units Covered
<p>In this course, pupils study three different units:</p> <ul style="list-style-type: none">• <u>Scottish</u>: Migration and Empire, 1830-1939• <u>British</u>: Britain 1851-1951• <u>European and World</u>: USA: 1918-1968 <p>Pupils are assessed through an external exam which comprises of one paper that asks them to write an essay on both the British and European and World topics and analyse three sources according to the way they have been taught all year. The exam is worth 60 marks. They also sit an Assignment worth 30 marks in which they choose a historical theme, a question, research it and produce an essay which is written up under exam conditions. This gives them the opportunity to investigate an area of History they find fascinating and to delve deeper into historical information to apply the knowledge they have learned.</p>
Progression
Further/Higher Education



Course Title
Hospitality
Level
Level 6 NPA
Units Covered
<p>The key message is about developing excellence in customer care, which lies at the heart of all successful hospitality businesses. This course introduces learners to the role of the team leader in hospitality and offers optional units covering specialist areas such as food and beverage service, reception and accommodation servicing.</p> <p>This National Progression Award consists of one mandatory unit 'Customer Care Excellence in Hospitality' (6 SCQF credit points) and three optional units (18 SCQF credit points).</p>
Progression
Progression into industry



Course Title

HUMAN BIOLOGY

Level

Higher

Units Covered

The purpose of this course is to develop learners' interest and enthusiasm for human biology in a range of contexts. The skills of scientific inquiry and investigation are developed, throughout the course, by investigating the applications of human biology. This will enable learners to become scientifically literate citizens, able to review the science-based claims they will meet. The course provides a broad-based, integrated study of a range of biological topics which develop the concepts of human biology.

The course provides the opportunity for learners to acquire a deeper understanding of cellular processes, physiological mechanisms, communication between organisms, and the biology of populations as they apply to the human species arranged under the following four units:

Human Cells - stem cells, differentiation in somatic and germline cells, and the research and therapeutic value of stem cells and cancer cells. Division and differentiation in human cells; structure and replication of DNA; gene expression; genes and proteins in health and disease; human genomics; metabolic pathways; cellular respiration; energy systems in muscle cells. Analytical thinking and problem solving skills will be developed in context, through investigation of DNA, the expression of the genotype, and protein production, which allows study of mutations and genetic disorders. DNA technology including sequencing and medical and forensic applications. Metabolic pathways and their control, through enzymes, with emphasis on cellular respiration and the role of ATP are also covered.

Physiology and Health - structure and function of reproductive organs and gametes and their role in fertilisation; hormonal control of reproduction; the biology of controlling fertility; ante and postnatal screening; the structure and function of arteries, capillaries and veins; the structure and function of the heart; pathology of cardiovascular disease (CVD); blood glucose levels and obesity linked to cardiovascular disease and diabetes. By studying these systems, learners will be able to develop their problem solving and analytical thinking skills. Reproduction covers hormonal control and the biology of controlling fertility, including fertile periods, treatments for infertility, contraception, antenatal care and post-natal screening. The Unit also covers relevant tissues and circulation and the pathology of cardiovascular disease, including the impact on society and personal lifestyle.

Neurobiology and Communication - divisions of the nervous system and parts of the brain; perception and memory as storage, retention and retrieval of information; the cells of the nervous system and neurotransmitters at synapses; communication and social behaviour. The approach is more on function than structure, and covers neural communication and the links between neurotransmitters and behaviour, while considering personal and social citizenship. This approach enables the development of both analytical thinking and problem solving skills in context.

Immunology and Public Health- In this unit, learners will develop knowledge and understanding through the key areas of non-specific defences; specific cellular

Ready, Respectful, Safe



defences; the transmission and control of infectious diseases; active immunisation and vaccination and the evasion of specific immune responses by pathogens.

Assessments are completed at the end of each unit to allow progression onto the final exam. An exam, worth 80% of the final grade, is combined with an externally assessed assignment to give a final mark.

Progression

Advanced Higher Biology
Further/Higher Education



Course Title

MATHS

Level

Higher

Units Covered

The following provides a broad overview of the subject skills, knowledge and understanding developed in the course:

- use algebraic and trigonometric skills and apply them in context
- use geometric skills and apply them in context
- use calculus skills and apply them in context
- use algebraic and geometric skills and apply them in context

The course is split into three units: Expressions and Functions, Relationships and Calculus and Applications. These have been split into 5 blocks with an assessment at the end of each block. It is vital that all pupils work to their full potential and ensure that they are thoroughly prepared for these assessments as this will allow for their success in presentation

The course assessment has two components: Paper 1 (non-calculator) 1 hour 15 minutes and Paper 2 (calculator) 1 hour 30 minutes.

Progression

Advanced Higher Maths
Further/Higher Education



Course Title
Higher Applications of Mathematics
Level
SCQF Level 6 (Higher)
Units Covered
<p>This brand new course develops skills that employers want: analysing statistical and mathematical information, solving problems, assessing risk and making informed decisions by using critical and logical thinking. It aims to develop mathematical skills that can be applied across different fields and in real life.</p> <p>The course comprises of four units:</p> <ul style="list-style-type: none">• Mathematical Modelling,• Statistics & Probability• Finance• Planning & Decision Making. <p>The course is assessed by a statistics project and a final exam.</p> <p>Entry requirements - A secure pass in National 5 Applications of Maths or National 5 Maths.</p>
Progression
<p>Further/Higher Education</p> <p>Potential careers/study include science, business management, research, insurance, social sciences.</p>



Course Title
MODERN LANGUAGES
Level
Higher
Units Covered
<p>In Higher French/German pupils continue to develop and extend their skills gained through prior study of the language. They continue to develop the ability to read, listen, talk and write in the modern language, understand and use detailed and increasingly complex language and apply knowledge about how language works (grammar). Skills are developed through the four key contexts of society, learning, employability and culture.</p> <p>Pupils will be provided with detailed assessment information for internal assessments, as well as the Higher exams (prelim and final exams).</p>
Progression
Further/Higher Education



Course Title

MODERN STUDIES

Level

Higher

Units Covered

Modern Studies is a subject unique to the Scottish secondary school curriculum that is concerned with the study of local, national and international issues from a social, political and economic perspective.

At CFE Higher pupils study three topic areas: 1-Social Inequalities in the UK, 2-Democracy in Scotland and the UK, and 3-International Powers (USA). The course is graded A-C. There is an external exam worth 80 marks and an Assignment which is worth 20 marks. The Assignment is a piece of research on a chosen topic which is completed in class, but marked externally.

Progression

Further/Higher Education



Course Title

MUSIC

Level

Higher

Units Covered

The course contains three compulsory components:

Performing Skills on two instruments or one instruments and voice: Pupils will perform in a range of musical styles by developing a range of complex musical, interpretive and technical skills, showing clear understanding of the composers' intentions, critically self-reflecting and evaluating the quality and accuracy of their performing and refining their performing skills.

Pupils will prepare a programme of music lasting twelve minutes in total, performing a minimum of two contrasting pieces on each instrument. (A minimum of four minutes within the programme on either instrument). The minimum level of difficulty at Higher is Grade 4 ABRSM. Performance makes up 50% of the final grade. This is externally assessed by a visiting examiner; the final practical exam can take place from mid-February to the end of March.

Composing Skills: Pupils will learn to create original music by identifying the compositional methods and music concepts used in given examples of music. Pupils will experiment and use music concepts and compositional methods to develop and create original music. Pupils will explore and develop musical ideas and create one complete piece of music. This must be completed by March and is externally assessed. A review of the composition and the process undergone to complete must also be included. Composing makes up 10% of your final grade.

Understanding Music: Pupils will learn to identify and analyse the use of music concepts and styles by identifying and distinguishing between complex level-specific music concepts in excerpts of music, analyse the impact of social and cultural influences on the development of specific music styles and analyse and use a variety of music signs and symbols and terms. The final assessment is a question paper of approximately 1 hour in length. The question paper makes up 40% of the final grade.

Progression

Advanced Higher Music
Further/Higher Education



Course Title
PHYSICAL EDUCATION
Level
Higher
Units Covered
<p>Purpose This course is designed to give pupils the chance to explore how Mental, Emotional, Social and Physical factors impact on sporting performance. Pupils will take part in 3 activities across the year, carrying out a training program in each.</p> <p>Entry requirement Entry to this course should be through National 5 Physical Education. Pupils are able to gain entry to the Higher course without doing National 5 however this should only be attempted after consultation and will be at the discretion of the PE department.</p> <p>Assessment Practical Performance Pupils will take part in 2 graded performances. The performances are both marked out of 30, totaling 60 marks (50% of the total marks available for course assessment).</p> <p>The purpose of these performances is to assess the pupil's ability levels in two different activities. Pupils will be able to select the activities they wish to be assessed in. In the case of unusual or less mainstream activities being selected by pupils this will be at the discretion of the department. The context of the performances must be challenging, competitive and/or demanding, and each performance will be assessed during a single event.</p> <p>Question Paper The question paper will have 50 marks (50% of the total marks available for the course assessment). It will have no optional questions. Learners will undertake the question paper in 2 hours and 30 minutes.</p> <p>The purpose of this question paper is to assess the learner's ability to integrate and apply knowledge and understanding from across the course. It is designed to assess applied knowledge, understanding and evaluation skills.</p>
Progression
Advanced Higher Physical Education Further/Higher Education

**Course Title****PHYSICS****Level**

Higher

Units Covered

The course develops candidates' interest and enthusiasm for physics in a range of contexts. The skills of scientific inquiry and investigation are developed throughout the course. The relevance of physics is highlighted by the study of the applications of physics in everyday contexts.

The course develops scientific understanding of issues relating to physics. It enables candidates to gain an in-depth knowledge of concepts in physics, and to develop confidence in the skills of scientific inquiry.

Candidates develop their ability to describe and interpret physical phenomena using mathematical skills, and practise scientific methods of investigation from which general relationships are derived and explored.

Candidates gain a deeper insight into the structure of the subject and reinforce and extend their knowledge and understanding of the concepts of physics.

Advances in physics mean that our view of what is possible is continually being updated. The course allows candidates to deepen their understanding of the processes behind scientific advances, and thus promotes awareness that physics involves interaction between theory and practice.

The course content includes the following areas of physics:

Our dynamic Universe

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

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

The topics covered are:

- ◆ monitoring and measuring AC
- ◆ current, potential difference, power, and resistance
- ◆ electrical sources and internal resistance
- ◆ capacitors
- ◆ semiconductors and p-n junctions

The course is assessed by an examination paper and an assignment, both of which are marked by SQA markers.

Progression

Advanced Higher Physics
Further/Higher Education



Wider Accreditation

COLLEGE COURSES

Level

A wide variety of courses can be found via the Moray College web site.

<https://www.moray.uhi.ac.uk/for-schools/>