



**Kinlochbervie High School**

**Information Booklet for S3-6 Courses**

**March 2009**

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## Introduction

Please be aware that courses will not run if there are insufficient numbers, but we will always do our best to meet the needs of all pupils. If a course does not run one year it will have an increased chance of being offered the next. **It is inevitable that a number of pupils will have to take subject(s) that are not their first choice.**

Please contact Dr Smith or Mrs Gunn should you wish to discuss any aspect of subject choice. This year for the first time, pupils must see teachers to sign off the appropriate level of study for all courses they are interested in (seven courses is the minimum requirement). This level of study form **MUST** be returned with the final choice of course form (to be issued in due course).

**Please return the choice of course form and the level of study form to Dr Smith by Thursday 26 March at the very latest.** Forms received after this date may be too late to be taken into consideration when the timetable is being made up and all the chosen subjects may not be available.

This booklet has information on all courses offered by departments. The National Courses described here are available at many levels: S3 pupils may start with Access courses but certainly by S4 most pupils would tend to take Intermediate 1 (Int 1) or the more challenging Intermediate 2 (Int 2). By S5/6 pupils are likely to be taking some courses at Higher and in S6 some may take Advanced Higher (AH). All these courses consist of several units (National Units) that are certificated on an individual basis - useful if a candidate fails the final exam.

The following are examples of implied progression routes through the course framework.

1. Pupils achieving level D in S2 may opt for Access or Int 1 in S3.
2. Pupils achieving level E are possibly best to opt for Int 1.
3. Pupils achieving level F may go straight into Int 2, although this could be challenging.
4. Pupils gaining a good Int 2 pass (or a Credit 1 at Standard Grade) could take the subject at Higher.
5. Pupils gaining a good Int 1 pass (or a General 3 at Standard Grade) could take the subject at Int 2.
6. Pupils gaining a good Higher pass could continue a subject in S6 at Advanced Higher.

However, pupils and parents should be aware that in some subjects such progression is more difficult. Therefore, an A pass (or possibly a B) is often required before the next level is attempted. Also, some pupils reach a plateau and progression in a particular subject is not an option they should consider. Please use the performance in prelims and especially the recommendations of teachers to guide your choice of level for desired courses.

The existing guidance to schools from the Scottish Government is that in S3/4 pupils should study at least one subject from each of the following groups thus ensuring pupils follow a broad curriculum.

<b>Expressive Arts</b>	<b>Science</b>	<b>Social Studies</b>	<b>Technologies</b>	
Art & Design	Biology	Business Management	Accounting	ECS / WWS
Music	Chemistry	Geography	Art & Design	Graphic Comms
PE	Physics	History	Business Management	Music
		Travel & Tourism	Computing	Product Design

ECS: Engineering Craft Skills

WWS: Woodworking Skills

Recently, Scottish education has begun a change to A Curriculum for Excellence and the above restrictions will be replaced within a few years. Meantime the council has told headteachers they can adopt a more flexible approach to meet local needs, hence our new S3-6 curriculum. However, the school believes pupils should still have a broad education and if parents choose a more limited range of subjects for their children, appropriate advice must sought from Dr Smith or Mrs Gunn.

## **Information for Pupils Entering S3**

All pupils in S3 will take one-year courses in English and Maths and non-certificated courses in Religious & Moral Education (RME), Personal & Social Education (PSE) and core Physical Education (PE).

Pupils must choose another three subjects for S3. These will be one-year courses.

Many pupils in S3 will start their option subjects at Intermediate 1 (Int 1). However, if a pupil shows real promise then it is possible they could start at or will be asked to move up to Int 2. In S4 it is hoped that many pupils will attempt subjects at Int 2. (Int 1 is roughly equivalent to Standard Grade General. Int 2 is roughly equivalent to Standard Grade Credit.)

In S3 all pupils will study English at the most appropriate level. Those pupils passing at Int 1 may choose to take Media Studies in S4 if they do not intend to take Higher English in S5.

In S3 all pupils will study Maths but this subject becomes optional in S4.

French is now an optional subject in S3/4. This does not imply a reduced importance of this subject, merely that a growing number of parents desired choice. There is a very strong case that many pupils in S3 and above should continue with French and parents are urged to give this serious consideration. Certainly many pupils will find French more difficult after a break in the study of a year or two. Knowledge of another language is becoming increasingly valued in the workplace. Many colleges and universities also look for such a qualification, for example courses in primary teaching, business management and travel & tourism.

The exams at the end of S4 can be the last qualifications taken in school by some pupils. In S4, in addition to a compulsory English course, pupils must choose four other courses. Compared to the S3 choice of course, S4 courses could be a mixture of different subject(s) and/or the same subject(s) but at a higher level. As pupils are likely to achieve at a higher level in S4 than they do in S3, it is important that some thought is given now to which subjects are to be taken in S4. In other words, pupils should not simply chose their favourite subjects for S3 without taking S4 choices and other factors into consideration. There is no guarantee that subject combinations taken in S3 will all still be possible in S4.

## **Information for Pupils Entering S4**

All pupils in S4 will take a one-year course from the English department and the non-certificated courses in Religious & Moral Education (RME), Personal & Social Education (PSE) and core Physical Education (PE).

In the past all pupils in S3 to S5 studied English. This year we are introducing Media Studies at Int 1 as an alternative to English for S4/5 pupils who passed English at Int 1 – see the Media Studies subject page for more details. Pupils hoping to progress to Higher English in S5 should take Int 2 English in S4, not Media Studies.

## Information for Pupils Entering S4 (continued)

In addition to English or Media Studies, pupils must choose another four subjects for S4. These will be one-year courses. Although Maths is an optional subject in S4, please be aware that many careers require particular achievements in Maths that are not likely to be possible by the end of S3.

In S4 it is hoped that many pupils will attempt subjects at Int 2 (in S3 they are taking most subjects at Int 1). Int 1 is roughly equivalent to Standard Grade General level. Int 2 is roughly equivalent to Standard Grade Credit level.

## Information for Pupils Entering S5/6

Pupils in S5 must study English or Media Studies and choose another 4 subjects. In exceptional circumstances, one course may be taken through Open Learning (OL) in S5, normally only at Higher. **All pupils must complete the courses in all the subjects chosen - no one will be permitted to drop a subject during the session.**

Pupils in S6 should choose at least 4 full courses and this minimum commitment should be maintained throughout the session. There may be some negotiation if for example, more than one subject is being taken at Advanced Higher level or if flexibility regarding vocational skills is an appropriate avenue to explore. Pupils in S6 may take only one OL course unless there is very good justification for two courses. The individual timetables of S6 pupils must be agreed with the Rector.

### Open Learning

OL courses are used to fulfil needs not met within the school's normal S5/6 curriculum. Pupils work through course material on their own with little or no day to day supervision. Work is set by a tutor to whom pupils send completed tasks and with whom contact is made by e-mail, letters, and audio/video conferencing. Progress in school is overseen by a mentor (normally a KLB teacher). Such courses are difficult for pupils used to the presence of a teacher, hence the restrictions we impose on the number of these courses taken. In our experience, success can be limited and courses taken by OL are often at least one band lower than would normally be expected (e.g. a C pass, rather than a B). Any pupil interested in an OL course should contact Dr Smith. Edinburgh's Telford College is our main provider of OL courses. Higher History and Higher Travel & Tourism (both given additional support from the school) and Psychology at Intermediate 2 and Higher are examples of subjects our pupils have had success with. Inverness College is now offering Higher Psychology on-line with monthly Saturday workshops in Inverness. The Open University also offers some courses to able S6 pupils – see Dr Smith or Mrs Gunn if interested.

### Drama Course

Eden Court Theatre together with Highland Council organise Int 2 and Higher Drama courses. Both courses require that some Saturdays and in-service days are spent at Eden Court in Inverness. Further details from Dr Smith.

## UPS System

The Unified Points Score Scale is an extended version of the Universities and Colleges Admissions Service (UCAS) Scottish Tariff points system. A list of courses and corresponding tariff points is shown below.

This system was used initially only in England and Wales but now many Scottish universities and colleges are quietly following suit. It has the advantage of taking into account all qualifications achieved by individuals, not just Advanced Highers and Highers. Core Skill qualifications, not included in the table below, also attract points at Higher (20 points) and Intermediate 2 (10 points).

The system can be of use to pupils and parents to identify the relative merits of awards achieved within different levels. It highlights i) that a D award at one level is thought equal to an A award at the level below and ii) how Intermediate 1 and 2 and Standard Grade are thought to equate.

The UPS should not be confused with the Credit Rating points listed on the SQA certificate listing exam results in the Scottish examinations. This system is designed purely to identify the level (AH, Higher, Intermediate2, etc.) that the candidate has been successful at.

<b>Course Level</b>	<b>Award</b>	<b>Tariff Points</b>
<b>Advanced Higher</b>	A	120
<b>Advanced Higher</b>	B	100
<b>Advanced Higher</b>	C	80
<b>Advanced Higher</b>	D	72
<b>Higher</b>	A	72
<b>Higher</b>	B	60
<b>Higher</b>	C	48
<b>Higher</b>	D	42
<b>Intermediate 2</b>	A	42
<b>Standard Grade Credit</b>	1	38
<b>Intermediate 2</b>	B	35
<b>Intermediate 2</b>	C	28
<b>Standard Grade Credit</b>	2	28
<b>Intermediate 2</b>	D	24
<b>Intermediate 1</b>	A	24
<b>Standard Grade General</b>	3	22
<b>Intermediate 1</b>	B	20
<b>Intermediate 1</b>	C	16
<b>Standard Grade General</b>	4	16
<b>Intermediate 1</b>	D	12
<b>Standard Grade Foundation</b>	5	11
<b>Standard Grade Foundation</b>	6	8
<b>Access 3</b>	Cluster	8
<b>Advanced Higher Unit</b>	-	20
<b>Higher Unit</b>	-	12

# **Accounting : Intermediate 1 and 2**

## **Aims**

This course aims to develop in candidates the ability to identify, accurately record and communicate financial and other relevant information to allow judgments and decisions to be made. It encourages candidates to think logically and to apply accounting principles in a consistent and effective manner, thus developing their problem-solving and decision-making skills.

## **Course Details**

The course has two units: Financial Accounting and Management Accounting.

Financial accounting enables candidates to understand how entrepreneurial organisations are structured, financed, managed and controlled. It will enable candidates to develop the ability and knowledge to prepare business documents, record financial transactions, prepare financial statements of business organisations and gain the skills necessary to analyse and evaluate business performance.

The study of management accounting will enable candidates to understand the significance and need for classifying and controlling costs, to develop skills in cash budgeting and to prepare a range of cost statements. It will also develop the skills and techniques necessary to allow candidates to prepare and interpret break-even charts, and to use break-even analysis and marginal costing techniques to make informed decisions.

All pupils will initially follow the Int 1 course. Pupils who achieve the required standard will be offered the opportunity to sit the Int 2 exam. It would be beneficial if the candidates had shown an aptitude for mathematics. Throughout the course candidates will be encouraged to use spreadsheets when preparing financial and management accounting statements as their use is mandatory in the unit assessment.

## **Assessment**

To achieve the course award the candidate must pass the units as well as the course assessment. The candidate's grade is based on the course assessment. For each unit, the unit assessments will be of a closed book nature and should take place at an appropriate time. The maximum time allowed for this is 1 hour 30 minutes. The course assessment is an exam which will last 1 hour 30 minutes and will cover the whole course.

## **Progression**

Pupils with an Int 2 pass can progress to Higher while those with an Int 1 pass can progress to Intermediate 2 and get a head start in their career.

# Accounting : Higher

## Rationale

There is a growing need for a greater awareness and understanding of financial information among a wide range of users. This not only includes creditors, shareholders and management, but also the wider community, including consumers of local authority services, employees, and those involved in not-for-profit organisations. During the course students will learn how to identify, measure and communicate financial and other relevant information, which will help decision-making. It should be particularly useful for students who are considering studying accountancy at university as well as those who want to be self-employed.

## Aims

- develop an understanding of the principles and practice of finance and of financial and management accounting by studying these areas in a range of contexts
- promote an understanding of accounting as a means of presenting and communicating information to interested parties, both external and internal
- prepare, use and interpret accounting information in relation to exercising control, analysing performance, making decisions and solving problems
- understand and make informed comment upon financial information published by a variety of organisations

## Recommended Entry

Candidates will be expected to have achieved one of the following:

Standard Grade: Mathematics at Credit or Business Management at Credit  
Int 2 / Higher Business Management a C level pass for the finance unit.

## Course Details

This course comprises of three mandatory units:

### *Financial Accounting*

In this unit students learn how to prepare final accounts for sole traders, partnerships and public limited companies. Manufacturing accounts and cash flow statements are also covered.

### *Management Accounting*

Students learn how to classify costs and how to value a firm's assets.

### *Using Accounting Information*

Topics covered in this unit include break-even analysis and profit maximisation under varying constraints such as limited resources or make / buy decision.

## Assessment

To gain the award of the course, the candidate must pass all the unit assessments as well as the external assessment. External assessment will be based on a written paper of 2 hours 30 minutes duration.

# Art & Design : Intermediate 1

## Aims

Art and Design follows the Intermediate level guidelines and aims to offer a wide range of practical experiences. This course provides pupils with a very good preparation for progression. It encourages pupils to become more visually aware, to have the confidence to express their own ideas and feelings visually and to be able to solve practical design problems.

## Course Details

The course is devised to benefit pupils at all levels of ability with a variety of activities and experiences throughout. Pupils follow a common course and individual areas of interest are encouraged and developed. There are three main areas of study.

*Expressive Activity* involves pupils in practical work exploring a given theme and expressing their own ideas and feelings visually using a variety of media and materials which may include drawing, painting, ceramics, printmaking, 3-dimensional work, computer graphics and digital imagery. Pupils are expected to keep personal sketchbooks at home to record ideas and research for work in the classroom.

*Design Activity* gives pupils the opportunity to tackle practical problem solving through a process which demonstrates investigation and research into a design brief, development of ideas, presentation of their own solution in 2-dimensional or 3-dimensional form and evaluation of the result. This can include activities such as product design, graphic or fashion design.

*Art & Design Studies* is intended to encourage pupils to develop ideas and opinions on their own and on the work of other artists and designers and to make their own judgments in written and visual form. Throughout the course pupils will have to complete written assignments which will be closely related to their practical work.

## Assessment

Assessment at Intermediate level is based on a pupil's performance in each of the three activities, with most of the course work being assessed internally (this provides frequent opportunities for individual discussion on progress). Pupils working at Intermediate 1 submit a piece of written work and a folio of Expressive & Design work to the SQA for external marking but they do not sit a final exam.

## Progression

Pupils who achieve Intermediate 1 can progress to Intermediate 2. Progression then leads to the Higher and the Advanced Higher course, which has had a good uptake of pupils in past years resulting in acceptances at Art College or University to study fine art, design or architecture.

# Art & Design : Intermediate 2 and Higher

## Purpose

The course aims to promote candidates with knowledge and understanding of the visual arts and design, their historical development and contemporary applications. Also, it will help candidates to develop and apply skills of practical investigation, media handling, problem solving and evaluation through expressive and design practical activities, linked to related contemporary and historical studies.

## Recommended Entry

Pupils would normally be expected to have attained Standard Grade Art and Design at Credit Level / Intermediate 2 for entry to the course at Higher and General level / Intermediate 1 for entry to the course at Intermediate 2. It is also advisable for pupils to have attained at least a level 3 pass in Standard Grade English.

## Course Details

Higher and Intermediate 2 follow a common course which comprises three mandatory units. Please note that not all available levels of the course may run each year.

### *Expressive Activity*

Pupils will identify, select and interpret sources and stimuli of personal interest from areas such as Still Life, Portraiture or the Natural Environment - investigating and recording at first hand, with an emphasis on direct drawing. This will involve different skills and techniques and use a range of appropriate media to produce a variety of evidence. Completed artwork will clearly convey the student's ideas, feelings and responses with imagination, demonstrating considered and assured use of different media.

### *Design Activity*

In response to a particular design problem or need, the pupil will negotiate and finalise a specific design brief in areas such as product, fashion, textile or jewellery design. The pupil will investigate and consider a range of possible approaches and a number of possible solutions, showing inventiveness and flexibility of thought. From possibilities considered, a solution will be selected and made in finished or prototype form. Informed evaluation of both the developmental process and the solution - including consideration of modifications and / or alternatives - will be included.

### *Art & Design Studies*

This unit is concerned with the development of knowledge, understanding and appreciation of the visual arts and design, past and present. Pupils will research and investigate chosen areas of the visual arts and design, communicating informed personal views, opinions and judgments. Pupils are required to undertake two studies, one of which must be directly linked to Expressive Activity and one directly to Design Activity. At least one study must deal with a contemporary context, use or application.

## Course Assessment

Most of the course work is assessed internally providing frequent opportunities for individual discussion on progress. Practical work produced in the classroom may be verified by an SQA Moderator at the end of the course. The portfolios of course work, including 3D work, are sent away for external grading and may be returned to the pupil later, if required, upon reimbursement of the SQA postal charges. The final exam at Higher consists of a two hour written paper on Critical / Historical Studies; 1 hour at Intermediate 2.

## Progression

Candidates who achieve Intermediate 2 or Higher Art & Design may progress to:

- Higher and Advanced Higher Art & Design
- a degree course in art school or university (Fine Art, History of Art, Art & Design)
- an appropriate HNC or HND course
- employment following SVQ training.

## Art & Design: Courses for S6

### Advanced Higher

Advanced Higher in Art & Design offers a natural progression from Higher and this option is open to any student who has achieved a Higher pass in Art & Design and at least an Int 2 pass in English. The AH course consists of a combination of two units - a mandatory 'major' unit of 80 hours study (2 credits) from Design or Expressive and an optional 'minor' unit of 40 hours (1 credit). Both units must be on a related theme or area of study to suit the student's personal skills and interests. This course requires a minimum of 7 periods of study weekly and plus work in students' own time on sketchbooks, research and folio work. There are no formal exams for Advanced Higher; assessment is external and is based on class work folios or research.

### Portfolio Preparation

This option is usually open to any S6 pupil who has already taken Higher Art & Design and wishes to submit a portfolio of work for entry to degree courses at art college or university, or to NC or HND courses at further education college.

While the art dept. can always offer help, it should be noted that portfolio preparation is a very specialised and competitive area. It is therefore strongly recommended that pupils should take advantage of any locally available workshops and courses in order to get further input and advice. Portfolio preparation in school would have to be negotiated on an individual basis and would involve the pupil working for at least 8 periods in the art room on personal study and research. A studio-like space can be provided within the Art Dept.

**Portfolio requirements must be identified early in the session as it takes at least 3 terms work to produce the appropriate body of evidence for college/university. It also requires a high level of motivation and commitment to the subject.**

# Biology : Intermediate 1

## Aims

The course provides a broad-based biology experience. It is intended to allow candidates who do wish to progress further in the study of Biology or to work in a biology-related occupation. The course will also broaden the experience of science even for those candidates not intending to pursue a career in science. The study of Intermediate 1 Biology contributes to the candidate's general and vocational education by developing general attitudes, as well as the ability to work both cooperatively and independently, fostering positive attitudes to themselves and others.

## Course Details

The course is divided into three units of equal length.

*Health and Technology*

*Biotechnological Industries*

*Growing Plants*

## Assessment

Each unit will be assessed by an end of unit test and one unit with a report of a practical investigation. Candidates passing the all the unit assessments will be able to sit the end of course Intermediate 1 Biology examination that will be certificated at four levels: A (70% and above), B (60-69%), C (50-59%) and D (45-49%). The exam lasts for 1 hour 30 minutes. Candidates who fail the exam or do not sit it, will receive certification for the unit assessments they pass.

## Progression

Candidates who achieve Intermediate 1 Biology may progress to:

- Intermediate 2 Biology, then to Higher Biology or Higher Human Biology
- Units at Intermediate 2 Biology
- A wide range of employment or training opportunities in areas such as health care, biological sciences, medical and veterinary sciences, nursing, agriculture, dietetics and physiotherapy.

# Biology : Intermediate 2

## Aims

The course aims to contribute to the student's education through the acquisition of biological knowledge and skills, and to provide a general basis for further study or employment in areas related to biology. The course provides a broad-based, integrated study of a wide range of biological topics emphasising the importance of biology as an area of fundamental investigative science and as a basis of study in a wide range of applied fields. The course develops an understanding of the way in which biological principles can be applied to the issues facing the individual and society and fosters positive attitudes to others and the environment.

## Course Details

The course is divided into three units of equal length.

### *Living Cells*

Cell structure in relation to function, diffusion and osmosis, enzyme action, aerobic and anaerobic respiration, photosynthesis.

### *Environmental Biology and Genetics*

Ecosystems, factors affecting variety in a species.

### *Animal Physiology*

Nutrition in mammals, control of internal conditions, circulation and gas exchange, senses and processing information.

## Assessment

Each unit will be assessed by an end of unit test and one unit with a report of a practical activity. Students passing the three unit assessments will be able to sit the end of course Intermediate 2 Biology examination that will be certificated at four levels: A (70% and above), B (60-69%), C (50-59%) and D (45-49%). Students who fail the exam or decide not sit it, will receive certification for the unit assessments they pass. The course or its component units may also form part of one or more Scottish Group Awards.

## Progression

Students who achieve Intermediate 2 Biology may progress to:

- Higher Biology
- Higher Human Biology
- A wide range of employment or training opportunities in areas such as health care, biological sciences, medical and veterinary sciences, nursing, agriculture, dietetics and physiotherapy.

# Biology : Higher

## Purpose

To contribute to the student's education through the acquisition of biological knowledge and skills, and to provide a general basis for further study or employment in areas related to biology. The course provides a broad-based, integrated study of a wide range of biological topics emphasising the importance of biology as an area of fundamental investigative science and as a basis of study in a wide range of applied fields. The course develops an understanding of the way in which biological principles can be applied to the issues facing the individual and society and fosters positive attitudes to others and the environment.

## Recommended Entry

Students would normally be expected to have gained an award in Standard Grade Biology with Knowledge and Understanding and Problem Solving at Grade 1 or 2, or in Intermediate 2 Biology at C pass or above.

## Course Details

The course is divided into three units of equal length.

### *Cell Biology*

Cell structure in relation to function, photosynthesis, energy release, DNA structure and function, synthesis of proteins, cellular response in defence in animals and plants.

### *Genetics and Adaptation*

Patterns of inheritance, evolution, animal and plant adaptations.

### *Control and Regulation*

Growth & development control, internal environment control, study of populations.

## Assessment

Each unit will be assessed by an end of unit test and one unit with a report of a practical activity. Assuming all the units are passed, Higher Biology will be certificated at four levels: A (70% and above), B (60-69%), C (50-59%) and D (45-49%). Students who fail the exam will receive certification for the unit assessments they pass.

## Progression

Students who achieve Higher Biology may progress to:

- Advanced Higher Biology
- HNC, HND or degree level study in the Biological Sciences, Medicine, Dentistry, Physiotherapy, Chiropody, Nursing, Veterinary Medicine and Nursing, Agriculture, Radiography, Dietetics
- Other further and higher education opportunities using the award for specialist or general entry purposes
- A wide range of employment or training opportunities including biological sciences, health care, agriculture and animal work.

# Biology : Advanced Higher

## Purpose

To contribute to the student's education through the acquisition of biological knowledge and skills, and to provide a general basis for further study or employment in areas related to biology. The course provides a broad-based, integrated study of a wide range of biological topics emphasising the importance of biology as an area of fundamental investigative science and as a basis of study in a wide range of applied fields. The course develops an understanding of the way in which biological principles can be applied to the issues facing the individual and society and fosters positive attitudes to others and the environment.

## Recommended Entry

Students would normally be expected to have attained an award in Higher Biology or Higher Human Biology.

## Course Details

The course will consist of three compulsory units and one of the optional units.

Compulsory units:

*Cell and Molecular Biology*

*Environmental Biology*

*Biology Investigation.*

Optional units:

*Biotechnology*

*Animal Behaviour*

*Physiology and Exercise.*

## Assessment

There will be unit tests for each unit. In addition, each unit requires the completion of a report of one experiment. The final exam will be in May and will be worth 75% of the course award. The investigation report will be externally assessed and will include an interview the student. The report is worth 25% of the course award. Assuming all units are passed, AH Biology will be certificated at four levels: A (70% and above), B (60-69%), C (50-59%) and D (45-49%).

## Progression

Students who achieve Advanced Higher Biology may progress to:

- HNC, HND or degree level study in the Biological Sciences, Medicine, Dentistry, Physiotherapy, Chiropody, Nursing, Veterinary Medicine and Nursing, Agriculture, Radiography, Dietetics
- other further and higher education opportunities using the award for specialist or general entry purposes
- a wide range of employment or training opportunities including biological sciences, health care, agriculture and animal work.

# **Business Management : Intermediate 1 and 2**

## **Aims**

The study of Business Management at Intermediate 1 develops an awareness of the key elements of business with which managers have to deal. It will enable candidates to acquire knowledge and understanding of the role and operation of business, to develop and apply some problem solving skills, and to communicate by means of written or spoken language. This should benefit all candidates, whether or not they subsequently follow a career in business. Candidates will gain from both the theoretical underpinning and the vocational relevance of the study of business management at this level.

## **Course Details**

This course has three units, Business in Contemporary Society, Business Activities and Information in Business.

Topics covered by the course include the following.

The contribution of business to society, wealth creation, production and consumption, satisfaction of human wants.

Types of business organisation: self-employed, private limited company, public limited company, voluntary organisation, charity, public corporation, government-funded service provider, local authority-funded provider.

The role of the entrepreneur, enterprise, identifying business opportunities, risk taking. Objectives, profit, survival, growth, social responsibility, provision of a service, relating to different types of organisation.

Operations, marketing, human resources and information in business.

All pupils will initially follow the Int 1 course. Pupils who achieve the required standard will be offered the opportunity to sit the Int 2 exam. It would be beneficial if the candidates had shown an aptitude for English.

## **Assessment**

To achieve the course award the candidate must pass the units as well as the course assessment. The candidate's grade is based on the course assessment. For each unit, the unit assessments will be of a closed book nature and should take place at an appropriate time. External assessment will be by means of a single written exam, worth 50 marks, of 1¼ hours duration. Knowledge & understanding, problem solving and decision making will be assessed in this paper. It will consist of two interpretation items; each answer should be about 300 words and is worth 25 marks.

## **Progression**

Pupils with an Int 2 pass can progress to Higher while those with an Int 1 pass can progress to Intermediate 2 and get a head start in their career.

# **Business Management : Higher**

## **Purpose**

To enable students to assess the activities of businesses, particularly with respect to the main functional areas which characterise the operation of all businesses. The course promotes the development of problem solving and decision making skills within a business framework. It would be suitable for those students who wish to extend and develop previous study and it would be appropriate as a starting point for those who wish to pursue a business related career.

## **Recommended Entry**

Entry is at the discretion of the centre.

## **Course Details**

The course consists of one single unit and one double unit.

### *Business Enterprise (single unit)*

This unit should enable students to:

- analyse the development of business enterprise in contemporary society
- assess the value of information and the application of ICT to business enterprises
- analyse the process of decision-making in business enterprises.

### *Business Decision Areas (double unit)*

This unit should enable students to:

- report on the internal organisation of business enterprises
- analyse the marketing decisions of business enterprises
- interpret and manipulate financial information used in business
- analyse the human resources decisions of business enterprises
- analyse the operations decisions of business enterprises.

## **Progression**

- Advanced Higher Business Management
- HNC/D e.g. Business Administration
- degree courses e.g. BA Business Management, BA Commerce
- a range of employment or training opportunities e.g. administrative posts in human resources or marketing.

# Chemistry : Intermediate 1

## Aims

The study of chemistry at Intermediate 1 provides candidates with the opportunity to develop a knowledge and understanding of the physical and natural environments within an applications and issues-based chemistry context. The course also continues the development of the problem solving and practical skills associated with scientific enquiry.

## Course Details

The course is divided into three units of equal length.

*Chemistry in Action*

*Everyday Chemistry*

*Chemistry and Life*

## Assessment

Each unit will be assessed by an end of unit test and one unit with a report of an experiment. Candidates passing the three unit assessments will be able to sit the end of course Intermediate 1 Chemistry examination that will be certificated at four levels: A (70% and above), B (60-69%), C (50-59%) and D (45-49%). The exam lasts for 1 hour 30 minutes. Candidates who fail the exam or do not sit it, will receive certification for the unit assessments they pass.

## Progression

Candidates who achieve Intermediate 1 Chemistry may progress to:

- Intermediate 2 Chemistry
- Units at Intermediate 2 Chemistry
- A wide range of employment or training opportunities in chemistry and chemistry-related area such as environmental science, pharmacy, science and chemical engineering.

# Chemistry : Intermediate 2

## Aims

The course is designed for students who wish to continue their study of chemistry and who may wish to progress to Higher. The study of chemistry can make an important contribution to the student's knowledge and understanding of the physical and natural world.

## Course Details

The course is divided into three units of equal length.

### *Building Blocks*

The unit seeks to develop knowledge and understanding, problem solving and practical abilities, in the context of substances: reaction rates; the structure of the atom; bonding, structure and properties; chemical symbolism; and the mole.

### *Carbon Compounds*

The unit seeks to develop knowledge and understanding, problem solving and practical abilities, in the context of fuels; nomenclature, structural formulae and reactions of carbon compounds; plastics and synthetic fibres; and natural products.

### *Acids, Bases and Metals*

The unit seeks to develop knowledge and understanding, problem solving and practical abilities, in the context of acids and bases; salt preparation; and metals.

## Assessment

Each unit will be assessed by an end of unit test and one unit with a report of an experiment. Candidates passing the three unit assessments will be able to sit the end of course Intermediate 2 Chemistry examination that will be certificated at four levels: A (70% and above), B (60-69%), C (50-59%) and D (45-49%). The exam lasts for 1 hour 30 minutes. Candidates who fail the exam or do not sit it, will receive certification for the unit assessments they pass.

## Progression

- to Higher Chemistry
- to further education courses in chemistry and chemistry-related subjects such as environmental science, pharmacy, science and chemical engineering
- to employment including work-based training for SVQ Laboratory Operations.

# Chemistry : Higher

## Purpose

The course is designed for students who wish to continue their study of chemistry beyond Credit or Int 2 level and who may wish to progress to Advanced Higher. As such the Higher course could form the first year of a two-year post Credit/Int 2 course, by continuing with Advanced Higher Chemistry (further details from Dr Smith or the science dept.). As a one-year course the study of chemistry at Higher can make an important contribution to the student's knowledge and understanding of the physical and natural world. The course provides a grounding for the further study in higher education of chemistry and chemistry-related subjects such as environmental and food sciences, and provides valuable background knowledge for vocational training in many areas of health and technology.

## Recommended Entry

While entry is at the discretion of the centre, students would normally have obtained one of the following awards or equivalent:

- Standard Grade Chemistry at Grades 1 and 2 (based on achievement in the Knowledge and Understanding and Problem Solving elements.)
- Intermediate 2 Chemistry course or its component units and Standard Grade Mathematics at Grades 1 and 2 or Int 2 Mathematics.

## Course Details

The course is divided into three units of equal length.

### *Energy Matters*

The unit seeks to develop knowledge and understanding, problem solving and practical abilities in the context of reaction rates; enthalpy; patterns in the Periodic Table; bonding, structure and properties; and the mole.

### *The World of Carbon*

The unit seeks to develop knowledge and understanding, problem solving and practical abilities in the context of fuels; nomenclature and structural formulae; reactions and uses of carbon compounds; polymers; and natural products.

### *Chemical Reactions*

The unit seeks to develop knowledge and understanding, problem solving and practical abilities in the context of the chemical industry; Hess's Law; equilibrium; acids and bases; redox reactions; and nuclear chemistry.

## Progression

- to Advanced Higher Chemistry (could be offered by the school)
- to another Science subject at Higher
- to degree and HND courses in chemistry and chemistry-related subjects such as environmental science, pharmacy, science and chemical engineering
- to employment including work-based training for SVQ Laboratory Operations.

## Community Sports Leadership : Level 2

### Aims

This qualification developed and run by Sports Leader UK provides the opportunity to develop vital skills for life such as planning and organising, teamwork and communication in sporting activities. It is fun and practical with no entrance qualifications required or examinations to sit. It is also an ideal first step towards gaining qualifications which promote the role of the volunteer in sport.

Anyone applying for this course must be 16 years or over. You must also have a commitment to sport in the community to ensure completion of the 10 hours voluntary practical work to demonstrate leadership ability.

### Course Details

The classes will take place during S5 Study periods.

There are 8 units which include,

- Organising and delivering sports and fitness sessions
- Safety in Sport
- Structure and responsibilities of governing bodies in sport
- Organising sporting events and competitions
- Adapting sports and activities
- First Aid
- Demonstration of leadership in the community

First Aid is delivered outwith the school course and will involve participating in a day course organised by Sports Leader UK.

To achieve the Award participants must complete all units. Further details can be found at [www.sportsleaders.org](http://www.sportsleaders.org)

### Assessment

Candidates require to demonstrate acceptable standards and obtain positive reports from youth leaders in the community and teachers. There are no exams.

### Progression

This course will enhance opportunities to progress to:

- Sports courses in Further Education Colleges
- Sport and management courses at university
- Voluntary work.

# Computing : Intermediate 1

## Purpose

“The development of computing over the last few decades has been significant in terms of speed and scope. It has had an effect on all aspects of our lives, and its future course remains unpredictable.

Our society requires more and more individuals who have the skills to use these tools, who understand how they work, and who have the ability to develop new and improved tools.”  
*Scottish Qualifications Authority, 2004*

The aim of the course at Intermediate 1 level is to provide knowledge and understanding of computing and information systems: practical skills to use both computer software and hardware, the ability to solve problems using technology and an awareness of the application of these skills socially and in the world of work.

## Course details

The course is divided into three units of equal length.

**Unit One – Computer Applications** provides the opportunity to develop and consolidate skills in a number of standard applications; word processing, databases, spreadsheets and graphics.

**Unit Two – Multimedia Applications** continues the above theme but introduces a variety of hardware and software used to capture and manipulate text, graphics, sound and video.

**Unit Three – The Computers and the Internet** prepares pupils in the use of the Internet as a source of relevant information with the application of the system development process to produce a simple relevant website.

## Assessment and certification

Each unit is internally assessed. This will represent 40% of the final mark. Students who are successful in the unit work will be able to sit the end of course exam which comprises the remaining 60%. Certification will be at levels; ‘A’ (70% and above), ‘B’ (60% - 69%), ‘C’ (50% - 59%) and ‘D’ (45% - 49%, designated a near miss). Students who do not sit, or fail the final exam, will be credited with any unit assessments that they may have passed.

## Progression on completion

Students who achieve Intermediate 1 may progress to

- Intermediate 2 in Computing
- Further and higher education opportunities using the award for specialist or general entry to courses
- A very wide range of employment and training opportunities where the use of, or knowledge of the application of computers is regarded as a core or background skill.

## Computing : Intermediate 2

### Purpose

“The development of computing over the last few decades has been significant in terms of speed and scope. It has had an effect on all aspects of our lives, and its future course remains unpredictable.

Our society requires more and more individuals who have the skills to use these tools, who understand how they work, and who have the ability to develop new and improved tools.”  
*Scottish Qualifications Authority, 2004*

The aims of the course at Intermediate 2 level is to provide knowledge and understanding of computing, practical skills to use both computer software and hardware, the ability to solve problems using technology and an awareness of the application of these skills socially and in the world of work.

### Course details

The course is divided into three units of equal length.

**Unit One – Computer Systems** develops a more detailed understanding of how computers work, how computer hardware and software is organized and how data is input, stored and output. Students will also become more aware of system specifications.

**Unit Two – Software Development** looks at the software environment and the solving of problems using a programming language.

**Unit Three – The Multimedia Technology** unit is designed to introduce and expand the knowledge of the software and hardware needed to capture and manipulate text, graphics, sound and video.

### Assessment and certification

Each unit is internally assessed. Candidates are required to complete a piece of coursework which represents 30% of the final mark. Students who are successful in the unit work will be able to sit the end of course exam which comprises the remaining 70%. Certification will be at levels; ‘A’ (70% and above), ‘B’ (60% - 69%), ‘C’ (50% - 59%) and ‘D’ (45% - 49%, designated a near miss). Students who do not sit, or fail the final exam, will be credited with any unit assessments that they may have passed.

### Progression on completion

Students who achieve Intermediate 2 may progress to

- Higher Computing
- Further and higher education opportunities using the award for specialist or general entry to courses
- A very wide range of employment and training opportunities where the use of, or knowledge of the application of computers is regarded as a core or background skill.

# Computing : Higher

## Purpose

“The development of computing over the last few decades has been significant in terms of speed and scope. It has had an effect on all aspects of our lives, and its future course remains unpredictable.

Our society requires more and more individuals who have the skills to use these tools, who understand how they work, and who have the ability to develop new and improved tools.”  
*Scottish Qualifications Authority, 2004*

The aims of the course at Higher level is to provide knowledge and understanding of computing, practical skills to use both computer software and hardware, the ability to solve problems using technology and an awareness of the application of these skills socially and in the world of work.

## Course details

The course is divided into three units of equal length.

**Unit One – Computer Systems** develops a more detailed understanding of how computers work, how computer hardware and software is organized and how data is input, stored and output. Students will also become more aware of system specifications.

**Unit Two – Software Development** looks at the software environment and the solving of problems using a programming language.

**Unit Three – The Multimedia Technology** unit is designed to introduce and expand the knowledge of the software and hardware needed to capture and manipulate text, graphics, sound and video.

Each of the above units builds onto the work covered in the Intermediate 2 course and ideally pupils should have completed that level.

## Assessment and certification

Each unit is internally assessed. Candidates are required to complete a piece of coursework which represents 30% of the final mark. Students who are successful in the unit work will be able to sit the end of course exam which comprises the remaining 70%. Certification will be at levels; ‘A’ (70% and above), ‘B’ (60% - 69%), ‘C’ (50% - 59%) and ‘D’ (45% - 49%, designated a near miss). Students who do not sit, or fail the final exam, will be credited with any unit assessments that they may have passed.

## Progression on completion

Students who achieve Higher may progress to

- Advanced Higher Computing
- Further and higher education opportunities using the award for specialist or general entry to courses
- A very wide range of employment and training opportunities where the use of, or knowledge of the application of computers is regarded as a core or background skill.

# **English : Intermediate 1**

## **Purpose**

The purpose of the course is to continue to study and to develop skills in English language in different forms.

## **Language Study**

This involves reading and analysing a variety of texts (both literary and media).

Close Reading skills are developed and are assessed through tests in class (NABs) and through part of a final exam – the 45 minute Close Reading paper.

Essays will also be written in class on informative, expressive and imaginative topics.

## **Literary Study**

A variety of texts will be studied: prose, drama, poetry and mass media.

Written responses to these will form part of class work and a critical essay forms part of a final exam – the 45 minute Critical Essay paper.

Unseen textual analysis is undertaken to provide a further NAB test in class.

## **Personal Study**

Pupils will select a text, in consultation with their teacher, study this text in depth, then write a critical essay in class, under exam conditions, on the text.

## **Progression**

Pupils passing their Int 1 English may progress to either Int 2 English or Int 1 Media Studies.

## **English : Intermediate 2**

### **Purpose**

The purpose of this course is to provide an opportunity for students to continue to study and practise language in different forms, thereby experiencing, reflecting on, analysing and developing the components of communicative competence. Communicative competence is closely related to intellectual growth and both can be advanced through purposeful reading, writing, talking and listening. Students will pursue study of units to gain qualifications for further study within and beyond the framework, for employment or for personal satisfaction. In this way, students will develop skills which are applicable in a wide range of personal, social, vocational and educational contexts.

### **Recommended Entry**

Students are expected to have attained a General award at Standard Grade or to have successfully completed Intermediate 1.

### **Course Details**

The course comprises three units of equal length.

#### *Language Study*

This unit focuses on writing of different kinds and on reading for writing. Students will study a variety of complex texts of different styles: informative, expressive, creative/imaginative. A high level of reading skill will be required as texts are studied and analysed for i) information and meaning (Close Reading) and ii) as models for students' own essay writing.

#### *Literary Study*

This unit focuses on the critical study of a variety of literary texts of recognised quality. The skills and concepts acquired and developed will enable students to respond in different ways to i) texts which have been studied in class (Critical/literature essay) and ii) texts which are unseen (for unseen textual analysis/Practical Criticism).

#### *Personal Study*

This unit will offer a personal choice of content e.g.: literature, language, non-fiction, theme, etc. Students will choose an area for independent study and will select their preferred form of assessment - written or spoken.

### **Assessment: Internal and External**

The award of Intermediate 2 English will be based on a combination of internal and external assessment. To gain the award, the student must achieve a pass in all the component units of the course as well as a pass in the external exam - 2 papers of i) 1 hour and ii) 1 hour 30 minutes

### **Homework**

Homework will be on a regular basis and will cover all the skills. Students may expect one or two pieces of written homework per week and independent reading/study will be ongoing.

### **Progression**

- Higher English (or units at Higher)
- Employment in careers related to Arts & Social Sciences.

# English : Higher

## Purpose

The purpose of this course is to provide an opportunity for students to continue to study and practise language in different forms, thereby experiencing, reflecting on, analysing and developing the components of communicative competence. Communicative competence is closely related to intellectual growth and both can be advanced through purposeful reading, writing, talking and listening. Students will pursue study of units to gain qualifications for further study within and beyond the framework, for employment or for personal satisfaction. In this way, students will develop skills which are applicable in a wide range of personal, social, vocational and educational contexts.

## Recommended Entry

Students are expected to have attained a Credit award at Standard Grade with a Grade 2 in both Reading and Writing or to have successfully completed Intermediate 2.

**Course Details** The course comprises three units of equal length.

### *Language Study*

The Language Study unit focuses on writing of different kinds and on reading for writing. Students will read and learn about a wide variety of complex texts whose purposes are informative, expressive and creative/imaginative. A high level of reading skill will be required as texts are studied and analysed for information, for meaning and as models of writing.

### *Literary Study*

The Literary Study unit focuses on the reading of literature and on responding critically to that reading. Students will read and learn about a variety of literary texts of recognised quality. The skills and concepts acquired and developed will enable students to respond in different ways to texts which have been studied by the class, group or individual and to texts which are unseen. The texts which are studied will be drawn from at least three of the four genres - prose fiction, poetry, drama and mass media - and there is a requirement that one of these texts will be Scottish.

### *Specialist Study: Literature*

The Specialist Study Literature Unit focuses on reading literary texts and responding critically to that reading. Students will select a text or texts of particular personal interest and pursue independent study of aspects of their chosen text(s). A high level of reading skill and analysis will be required. The Specialist Study requires an ability to develop and justify a personal, critical point of view in an extended piece of writing.

## Assessment

There will be a combination of internal and external assessment. To gain the award, the student must pass in all the units as well as the external exam.

## Homework

Homework will be on a regular basis and will cover all the skills. Students may expect two or three pieces of written homework per week plus independent reading/study.

## Progression

- Advanced Higher English (or units at Advanced Higher)
- HNC, HND and degree courses in Arts & Social Sciences
- Employment in careers related to Arts & Social Sciences.

# English : Advanced Higher

## Purpose

This course is a lot different from Higher. It is based on the assumption that you already have considerable communication skills shown by a good Higher pass. However there are personal and academic challenges. You must be able to think and work independently. Thus you will develop skills which are applicable in a wide range of personal, social, vocational and educational contexts. This will prepare you for studying at College or University. If you have Advanced Higher English, you will have an initial advantage over others in tertiary education.

## Recommended Entry

Higher English B Grade

## Course Details

The course comprises of three units of equal length.

### *English and Communication Specialist Study*

This includes a dissertation, an extended piece of writing of approximately 4000 words based on personal investigation of a literary or linguistic topic, chosen in consultation with your teacher. This is the same idea as your personal study at Higher only it is longer. You also have to write about more than one text and you have to research and include what other people have said about your chosen texts.

### *English and Communication Literature*

This unit focuses on the reading of literature and on responding critically to that reading. At Advanced Higher you will study a greater variety of texts to a greater depth. In the exam you will be required to answer only one question on set texts in one and a half hours. This is the only component to be done under examination conditions. The paper will cover Drama, Poetry, Prose and Additional Scottish Texts and Authors.

### *English and Communication Creative Writing*

You have to complete a Creative Writing Folio consisting of four pieces of imaginative writing and illustrating at least two different genres (reflective essay; fiction; poetry; drama.) This Creative Writing Folio is sent to the SQA for external marking. In recent years the class has attended a week long residential Creative Writing Course and have had professional writers come to the school to give workshops. It is hoped that this practice will continue. In the past all students have really enjoyed this unit.

## Progression

University degree courses in any subject.

College courses in any subject; HNC, HND in Arts and Social Sciences. Some Colleges may give exemptions in their first year courses for students with an Advanced Higher.

Employment in careers related to Arts and Social Sciences.

Professional writing.

# French : Intermediate 1 & 2

## Aims

The Modern Languages Department aims to develop linguistic competence, knowledge about language and confidence in pupils. It will promote the language in everyday use. Pupils will develop the skills of reading, speaking, listening and writing in the foreign language.

## Course Details

The course book is *Métro pour l'Ecosse* specially written for pupils studying for Scottish exams. This will be supplemented by other material. There will also be an emphasis on the culture of France.

The Intermediate 1 course consists of 3 units as follows.

*Personal and Social language*

*Transactional Language*

*Language in Work*

## Assessment

Each unit is internally assessed in all four skills and there is an external exam to assess Listening, Reading, and Writing. To get the overall award pupils must pass the unit assessments and the external exam.

## Progression

Very good pupils, gaining an Intermediate1 pass by the end of S3, could progress to Intermediate 2 in S4 and then to Higher French in S5. For others the progression would be to Intermediate 2 in S5/6. Other languages may be available through open learning in S5/6.

There are many university courses now available which combine languages with other fields of study e.g. languages/engineering, languages/computing, languages/sciences, languages/law, languages/business studies. Languages are viewed as a desirable, even essential skill by many employers. Having one or more foreign language makes the possibility of working abroad much more accessible and increases job prospects at home.

## French : Higher

### Purpose

The aim of this course is to offer progressive development of competence in the four skill areas of listening, speaking, reading and writing, within a widening range of contexts and language purposes.

### Recommended Entry

While entry to the course or units will be at the discretion of the centre, students will normally be expected to have attained:

- Intermediate 2 Modern Languages or its component units
- Standard Grade award at grades 1 or 2.

### Course Details

The course consists of one single unit and one double unit.

#### *Language (double unit)*

This unit will seek to ensure progress in language in a variety of contexts, combining the skills in appropriate integrated tasks. It will build on students' prior learning. Contexts of language covered will reflect the age and interests of the students and at this level the skills of speaking and writing will place emphasis on the student's ability to express points of view in some detail and to exchange ideas with evidence of increasing confidence and accuracy.

AND

Either            *Extended Reading/Viewing (single unit)*

Or                *Language in Work (single unit)*

Of the two options above, students will study one, thereby developing further particular language skills in line with their personal or vocational needs or interests. It will be for each centre to decide, in the light of the expertise of the staff and the interests of the students, which of these options to offer, or whether both should be made available.

### Progression

Attainment of the award will allow students to progress as follows:

- Advanced Higher course or units in the same language (AH French could be offered by the school)
- Higher education courses at appropriate levels, including HNC or HND or degree courses
- courses offered by foreign language agencies at appropriate levels
- employment, possibly making use of foreign language competence.

# Geography : Intermediate 1 & 2

## Aims

The main aim of Geography is to help people, as citizens, develop a detailed understanding of aspects of the contemporary world, through use of the concepts and techniques of geographical analysis. Both Intermediate 1 and 2 courses will enable you to develop progressively an understanding of, and skills in applying, some key concepts and a range of techniques used in geographical analysis. During the course of your studies we hope you will be enthused and develop a life-long interest in and concern for what is happening in your environment – local, national and global – and an interest in caring for it. Think globally, act locally! We hope you will enjoy being out of doors and exploring Scotland and the world – as a responsible citizen, at work or at leisure.

## Course Details

For both Intermediate courses, there are three compulsory units with a choice of case study in each. Throughout each topic, you will be introduced to and practice a variety of geographical methods and techniques which geographers use in extracting, processing and analysing information and data. This may include actual fieldwork or simulated fieldwork in the classroom.

### *Physical Environments*

British Isles context

A selection of landscapes and their human use and management are studied.

### *Human Environments*

Global context

Using a series of case studies from developed and less developed countries across the world, the following topics are studied.

### *Environmental Interactions*

Global context

Using case studies from across the world, the way in which people cope with problems and interact with their environment are studied.

The difference between Intermediate 1 and 2 Geography is found largely within the content of the topics – in the range and detail of knowledge required.

## Progression

Geography, at whatever level, is a useful qualification whether you wish to continue academic study, or take up work as a school leaver. If you want to continue academic or vocational studies then Geography provides a great stepping-off point. A Geography qualification is also useful in a wide range of careers. These include work in recreation and tourism, town and country planning, teaching, civil engineering, conservation, transport, surveying, the civil service, land management, forestry, fisheries management, meteorology, geophysics, and oceanography, to name a few.

# Geography : Higher

## Purpose

This course adds breadth and depth to the conceptual understanding of physical and human environments and their interrelationships. It also extends evaluative skills and the range of geographical methods and techniques.

## Recommended Entry

While entry is at the discretion of the centre, students would normally be expected to have attained:

- a grade 1, 2 (or possibly a 3) at Standard Grade Geography or History
- an Int 2 course or component units in Geography
- a course or component units at Int 2 or Higher in another social subject.

## Course Details

The course comprises three mandatory units of equal length.

### *Geography: Human Environments*

This unit builds on key ideas relating to the human environment and international issues developed at earlier stages. There are four sub-sections dealing with population geography, rural geography, industrial geography and urban geography. Also linked to this unit are specific geographical methods and techniques which are taught in the context of the sub sections. The time allocation to this unit reflects the integration of the geographical methods and techniques within the sub sections but it can also be used to enhance the teaching by drawing on aspects of the *Environmental Interactions*.

### *Geography: Environments*

This unit develops key ideas on landforms and rivers developed at earlier stages, and introduces new ideas on atmospheric circulation, soils and vegetation. There are four sub- sections dealing with atmosphere, lithosphere, hydrosphere and biosphere. As with the *Human Environments*, specific geographical methods and techniques are an integral part of the unit along with aspects of the associated *Environmental Interactions* and are accounted for within the unit's time allocation.

### *Geography: Environmental Interactions*

In this unit, emphasis is placed on providing students with the opportunity to develop aspects of physical and human geography within specified applications and prescribed areal contexts. Students are required to study two applications, one from each of the following groups. Group one: Rural land resources; Rural land degradation; River basin management. Group two: Urban change and its management; European regional inequalities; Development and health.

## Progression

From the achievement of a Higher course or units in Geography the student may be able to progress to the course or units at Advanced Higher. Alternatively, students could progress to a course or units at an appropriate level in another social subject. Students may also progress to HNC/D awards or degree courses in further or higher education or to employment.

# Graphic Communication : Intermediate 1

## Aims

The purpose of a course in Graphic Communication is to make pupils aware of the use of graphics in industry and commerce and to give practice in the techniques employed in their creation. Graphic Communication provides an opportunity for developing confidence in presenting and interpreting technical graphics while encouraging imaginative, creative and logical thinking. Intermediate1 Graphic Communication will provide pupils with a wide range of skills which can be used in a variety of engineering, construction, technological or industrial fields.

## Course Details

### Technical Graphics I

Pictorial drawing; Orthographic Drawing – geometric construction; Pictorial sketches; Manual illustration; Colour theory

### Technical Graphics II

Orthographic sketches; Orthographic Drawing – components, assemblies; Knowledge of British Standards for technical drawing; Interpret detailed drawings and diagrams

### Computer Graphics

Orthographic and pictorial drawings using computer-aided draughting (CAD) software; Illustration and presentation using illustration software; Desktop Publishing using Desktop Publishing software; Computer knowledge

## Assessment

To achieve the course award the candidate must achieve the units as well as pass the course assessment. Each unit is assessed by means of a folio of work containing evidence for Outcomes 1, 2, and 3 and a short closed-book assessment for Outcome 4. The candidate's grade is based on the two components of the course assessment:

### ◆ Question Paper : Total marks - 70

Based on manual drawing techniques and knowledge of British Standards, computer terminology, colour theory and the advantages of computer graphics in industry.

### ◆ Graphic Presentation Folio : Total marks - 30

Providing evidence of manual illustration and presentation and computer graphics.

## Progression

Intermediate 2 Graphic Communication

A qualification in Graphic Communication is an ideal preparation for further study or employment. It is particularly useful for careers in design, engineering and architecture and careers which require the ability to interpret information from working drawings. The expertise developed in computer-aided work would be extremely useful in any area of work where the ability to use computer packages is required e.g. graphic design, advertising, publishing, technical illustration, draughtsman.

# Graphic Communication : Intermediate 2

## Aims

The course develops the knowledge and skills in sketching and drawing everyday items using both manual and computer-aided methods. Candidates will develop an understanding of the need for clear and accurate drawings and will gain knowledge of relevant British Standards. In addition, candidates will have the opportunity to develop analytical thinking and creativity. Acquiring knowledge of the importance of graphics in an industrial context will provide a perspective on commerce and industry.

## Course Details

### *Technical Graphics 1*

- Draw isometric, planometric and oblique views of everyday items.
- Construct and draw views of right prisms, pyramids, cylinders and cones in orthographic projection.
- Sketch perspective views and apply freehand illustration techniques.

### *Technical Graphics 2*

- Produce sketches and drawings of everyday items and locations.
- Produce drawings of assemblies and sectional views in orthographic projection, working from orthographic or pictorial details of the components.
- Apply knowledge of British Standards conventions in the production of orthographic and location drawings.

### *Graphic Communication: Computer Graphics*

- Produce orthographic & pictorial drawings using a computer-aided package.
- Produce computer-rendered drawings for promotional purposes using an illustration package.
- Produce single or double page layouts using a desktop publishing package.
- Demonstrate knowledge associated with computer graphics.

## Assessment

The 3 units outlined above must all be passed in order to gain the course award. Each unit is assessed internally through a combination of tests and evidence of the pupils best work collected in a folio. The course assessment is as follows.

70% - Examination Paper (external). 30% - Computer Graphics Folio

### *Computer Graphics Folio*

Each candidate will produce a range of computer graphics which will provide evidence for the internal assessment of the unit Computer Graphics (Int 2). From this evidence, the best work should be selected, in discussion with the teacher, for inclusion in the Computer Graphics folio.

## Progression

### Higher Graphic Communication

A qualification in Graphic Communication is an ideal preparation for further study or employment. It is particularly useful for careers in design, engineering and architecture and careers which require the ability to interpret information from working drawings. The expertise developed in computer-aided work would be extremely useful in any area of work where the ability to use computer packages is required e.g. graphic design, advertising, publishing, technical illustration, draughtsman.

# Graphic Communication : Higher

## Aims

The course develops the knowledge and skills in sketching and drawing everyday items using both manual and computer-aided methods. Candidates will develop an understanding of the need for clear and accurate drawings and will gain knowledge of relevant British Standards. In addition, candidates will have the opportunity to develop analytical thinking and creativity. Acquiring knowledge of the importance of graphics in an industrial context will provide a perspective on commerce and industry.

## Course Details

### **Technical Graphics 1**

Apply manual techniques of pictorial representation to suit a range of subject matter. Apply manual techniques of geometric construction in the generation of orthographic drawings. Apply manual techniques of illustration and presentation to give emphasis and realism to graphic presentations.

### **Technical Graphics 2**

Apply manual techniques of orthographic projection to produce drawings of components, assemblies and locations. Apply the principles of dimensioning to orthographic production drawings. Demonstrate knowledge of the use of graphic communication within the consumer, engineering, and construction industries.

### **Computer Graphics**

Produce orthographic & pictorial drawings using a computer-aided draughting package. Produce computer-rendered drawings for promotional purposes using an illustration package. Plan and produce single and double page layouts using a desktop publishing package. Demonstrate knowledge of terminology and hardware associated with computer graphics.

## Assessment

The 3 units outlined above must all be passed in order to gain the course award. Each unit is assessed internally through a combination of tests and evidence of the pupils best work collected in a folio. The course assessment is as follows.

- an examination paper, covering all three units of the course: 70%
  - a Thematic Presentation, incorporating manual and computer-aided graphics : 30%
- The Thematic Presentation is a folio of work, on a theme chosen by the candidate, and should address the following range:

**preliminary** (informal) drawings - for example, market-research data, freehand sketches, planning charts, and sequence diagrams

**production** (formal) drawings CAD - for example, assembly drawings, site plans, detailed production drawings, service diagrams, installation diagrams, and constructional drawings

**promotional** (for effect) drawings CAG and DTP - for example, illustrations, displays, cutaways, exploded views, and perspective views and DTP layouts.

## Progression

Advanced Higher Graphic Communication

A qualification in Graphic Communication is an ideal preparation for further study or employment. It is particularly useful for careers in design, engineering and architecture and careers which require the ability to interpret information from working drawings. The expertise developed in computer-aided work would be extremely useful in any area of work where the ability to use computer packages is required e.g. graphic design, advertising, publishing, technical illustration, draughtsman.

## History : Intermediate 1 & 2

### Aims

You have probably decided to study the subject of History because you have an interest in it: in its colourful and exciting stories and in its concern for fellow human beings. You may wish to pursue opportunities to collect information from a variety of sources including using information technology, personal reading and research. Intermediate History will allow you to:

- Acquire knowledge about the past
- Investigate and explain changes which have happened through time
- Examine the causes and consequences of events
- Reach conclusions about people's actions and motives
- Further increase your awareness of your heritage.

In addition, by studying History you will improve your abilities to analyse and evaluate evidence and look at issues in a critical way.

Undertaking a course in Intermediate History will improve your communication skills and develop your ability to think creatively and critically. It will particularly aid your essay-writing techniques which you will find very valuable in your further or higher educational career.

### Course Details

At Intermediate 1 or 2 Level you must study three units.

One Unit must be from the *Scottish and British* list.

One Unit must be from the *European and World* list.

The third Unit can be from either list.

The combination of the three units done will depend on the level chosen Intermediate (Int) 1 or 2 and teacher advice for the whole class. The following list gives possible choices with respective levels.

#### *Topics in the "Scottish and British" Unit*

Wallace, Bruce and the Wars of Independence 1296 – 1328.	(Int 1)
Immigrants and Exiles: Scotland 1830s – 1930s.	(Int 1)
From the Cradle to the Grave? Social Welfare in Britain 1890s – 1951.	(Int 2 only)
Campaigning for Change: Social Change in Scotland 1900s – 79.	(Int 1)

#### *Topics in the "European and World" Unit*

The Red Flag: Lenin and the Russian Revolution 1894 – 1921.	(Int 1 & 2)
Free at Last? Race Relations in America 1918 – 1968.	(Int 1 & 2)
The Road to War 1933 – 1939.	(Int 2 only)
In the Shadow of the Bomb: The Cold War 1945 – 1985.	(Int 1 & 2)

## History : Higher

### Purpose

This course provides breadth and depth in the knowledge and understanding of historical concepts through study of chosen contexts. It is also intended to develop skills of evaluating events and sources and of investigating issues.

### Recommended Entry

While entry is at the discretion of the centre, students would normally be expected to have attained a grade 1 or 2 at Standard Grade in History, Intermediate 2 in History, or Intermediate 2 or Higher in another social subject.

### Course Details

There are three mandatory units although each unit has a choice of contexts. The first two units differ in the contexts offered to allow for breadth and balance of historical coverage, the first covering Scottish and British History and the second covering a wider geographical area.

#### *Historical Study: Scottish and British*

This unit would be based on the existing General Study (a) of Revised Higher with a choice of context from each of the three current options, Medieval, Early Modern and Later Modern.

#### *Historical Study: European and World*

This unit would be based on the existing General Study (b) or (c) of Revised Higher with a choice of context from each of the three current options, Medieval, Early Modern and Later Modern. These options would cover the existing General Studies (b) and (c) but the requirement for content coherence may necessitate the creation of new or amended contexts. This would ensure satisfactory articulation both across the Higher year's work (with the Special Topic) and across the two years of Higher/Advanced Higher (with the fields of study for the Advanced Higher).

#### *Historical Special Topic*

This unit would be based on the existing Revised Higher Special Topic. The content would cover a range of contexts which would be drawn from the existing topics. Some alterations in content may also require to be introduced to increase content coherence as defined in the rationale. The outcomes would allow progression from Intermediate 2 units. They would also reflect the aims of the existing revised Higher Special Topic.

### Progression

From the achievement of a Higher unit or course students may be able to progress to units or the course at Advanced Higher in History. Higher History will contribute to Scottish Group Awards. Students may also progress to:

- higher education courses in History, humanities and social sciences, law and business
- administration or other related areas
- further education courses including HNC/D courses in arts and social sciences or other areas.
- employment or vocational training in a variety of different areas.

# **Hospitality**

## **Practical Cookery : Intermediate 1**

### **Aims**

The Intermediate 1 Hospitality course in practical cookery will help prepare pupils for employment in catering or in bakery production.

### **Course Details**

There are two full units and two half units in this course as follows.

#### *Cookery Processes*

In this full unit pupils will gain knowledge of a range of cookery processes and carry out the cookery processes in a safe and hygienic manner.

#### *Food Preparation Techniques*

In this full unit pupils will develop knowledge and skills in basic food preparation techniques, identifying equipment and preparation terms.

#### *Food Hygiene for the Hospitality Industry*

This half unit develops a basic understanding of and competence in hygienic food handling practice.

#### *Organisation of Practical Skills*

In this half unit pupils will develop skills to plan food preparation, order ingredients, identify equipment and then integrate practical skills to complete tasks.

### **Assessment**

Each unit is assessed using practical and written tests. There is no final written exam, but there is a two hour final practical that requires written preparation. The assignment brief is set by SQA.

### **Further Study**

Int 2 Practical Cookery.

### **Career Options**

There are a wide variety of career choices at all levels. These include Catering, Chef training in College or the Forces, Bakery, Confectionery and Hotel Management.

# Human Biology : Higher

## Purpose

The course provides a broad-based, integrated study of a range of biological topics. The content considers aspects of biological science which have more immediate relevance for the biology of the human species and the influence of humankind on the biological world. The study of Higher Human Biology contributes to the candidate's general and vocational education through the acquisition of relevant biological knowledge and. It also contributes to the development of the more general attitudes and abilities related to the processes of science

## Recommended Entry

Students would normally be expected to have gained an award in Standard Grade Biology with Knowledge and Understanding and Problem Solving at Grade 1 or 2, or in Intermediate 2 Biology at C pass or above.

## Course Details

The course is divided into three units of equal length.

### *Cell Function and Inheritance*

The Role of Enzymes in Cell Metabolism; Protein Synthesis; Energy Transfer; Cell Transport; Cellular Response in Defence; Inheritance.

### *The Continuation of Life*

Reproduction; Development; Transport Mechanisms; Delivery of Materials to Cells; Removal of Materials from the Blood; Regulating Mechanisms.

### *Behaviour, Populations and the Environment*

Nervous System and Memory; Behaviour; Population Growth and the Environment

## Assessment

Each unit will be assessed by an end of unit test and one unit with a report of a practical activity. Assuming all the units are passed, Higher Human Biology will be certificated at four levels: A (70% and above), B (60-69%), C (50-59%) and D (45-49%). Students who fail the exam will receive certification for the unit assessments they pass.

## Progression

Students who achieve Higher Human Biology may progress to:

- Advanced Higher Biology
- HNC, HND or degree level study in the Biological Sciences, Medicine, Dentistry, Physiotherapy, Chiropody, Nursing, Radiography, Dietetics
- Other further and higher education opportunities using the award for specialist or general entry purposes
- A wide range of employment or training opportunities including biological sciences, health care, etc.

## Information Systems : Intermediate 2

### Purpose

Information has had an ever increasing role in many aspects of modern life, affecting work, home and leisure. Developments in communication technologies and the Internet have ensured that information is widely accessible and as a result using information and working with information systems is a feature of today's world.

This course examines what is meant by information, how that information is produced, what purpose it serves and what value it has. By developing a better understanding of the software used in a variety of Information Systems such as the Internet, Multimedia and Expert Systems, candidates will gain important and necessary skills for the future.

### Course details

The course is divided into three units of equal length.

**Unit One – Using Information** develops an understanding of information, what it is, how it is used, how it is stored and when it is appropriate to use it.

**Unit Two – Database Systems** develops knowledge and skills using and creating databases. The coursework is based on MS Access a very powerful database package.

**Unit Three – The Internet** is explored by looking at its development, structure, the services provided and its potential. Using a standard web authoring package pupils will create web pages.

Candidates wishing to do this course will be required to complete a pre-course study of Information and the Internet. This is a unit from Computing Studies (Int 1). No examination is involved; it merely provides a good foundation for the above course.

### Assessment and certification

Each unit is internally assessed. Candidates are required to complete a piece of coursework which represents 30% of the final mark. Students who are successful in the unit work will be able to sit the end of course exam which comprises the remaining 70%. Certification will be at levels; 'A' (70% and above), 'B' (60% - 69%), 'C' (50% - 59%) and 'D' (45% - 49%, designated a near miss). Students who do not sit, or fail the final exam, will be credited with any unit assessments that they may have passed.

### Progression on completion

Students who achieve Intermediate 2 may progress to

- Higher Information Systems
- Further and higher education opportunities using the award for specialist or general entry to courses
- A very wide range of employment and training opportunities where the use of, or knowledge of the application of computers is regarded as a core or background skill.

# Information Systems : Higher

## Purpose

Developments in communication technologies and the Internet have ensured that information is widely accessible. Such developments are themselves generating demand for further access to information. This inclusiveness has led to the development of an e-culture relying on information systems. Such information is used extensively by individuals and organisations when making decisions and is becoming increasingly integrated into everyday practice and thinking across many disciplines.

## Course details

The course is divided into three units of equal length,

**Unit One – Using Information** develops an understanding of information, what it is, how it is used, how it is stored and when it is appropriate to use it.

**Unit Two – Relational Database Systems** develops knowledge and skills using and creating databases. The coursework is based on MS Access a very powerful database package.

**Unit Three – The Internet** is explored by looking at its development, structure, the services provided and its potential. Using a standard web authoring package pupils will create web pages.

Each of the above units builds onto the work covered in the Intermediate 2 course and ideally pupils should have completed that level.

## Assessment and certification

Each unit is internally assessed. Candidates are required to complete a piece of coursework which represents 30% of the final mark. Students who are successful in the unit work will be able to sit the end of course exam which comprises the remaining 70%. Certification will be at levels; 'A' (70% and above), 'B' (60% - 69%), 'C' (50% - 59%) and 'D' (45% - 49%, designated a near miss). Students who do not sit, or fail the final exam, will be credited with any unit assessments that they may have passed.

## Progression on completion

Students who achieve Higher may progress to

- Advanced Higher Information Systems
- Further and higher education opportunities using the award for specialist or general entry to courses
- A very wide range of employment and training opportunities where the use of, or knowledge of the application of computers is regarded as a core or background skill.

# Internet Safety: Intermediate 1 (Unit)

## Aims

The Scottish Qualification Authority offers this course as the first national qualification in the EU relating to internet safety. This new qualification is intended for anyone who regularly uses the internet and wishes to keep themselves safe while doing so. The course has been developed for young people, small businesses and online shoppers. Partners collaborating with the SQA have been BT, Microsoft and Strathclyde Police.

## Course Details

This is the first 'e-only' qualification SQA offer, whereby there is no traditional teaching (although a teacher will be available to provide guidance) and almost no paperwork involved. Learning materials and assessments are carried out online.

This is a single unit course and as such will require only 40 hours throughout the session. This means that a pupil could achieve the qualification if timetabled for two periods a week. As a result only S5 and S6 pupils will be eligible for this course.

Topics covered in the course include,

- Viruses
- Malicious Software (Malware)
- Other Internet Threats
- Internet Defences
- Legal Aspects

As well as a knowledge assessment carried out online pupils are required to keep a diary (or blog) to describe their practical activities.

## Progression

This course may provide candidates with increased confidence while using the internet but it can also be used to progress to:

- Courses and programmes in Further or Higher Education requiring research on the internet
- Other suitable training or employment where internet skills are useful.

## Mathematics : Access 3 (SQA Level 3)

### Purpose

The aim of this course is to extend students' knowledge and understanding and improve their reasoning and enquiry skills, gaining a National Qualification.

### Recommended Entry

Students would normally be expected to have attained a level C in their 5–14 assessment at the end of S2 or a pass at Access 2.

### Course Details

The course is divided into three units of equal length.

#### *Mathematics 1*

The content of this unit includes Whole Numbers, Multiplying & Dividing, Fractions, Numbers in Words, Money, Information Handling, and Measure.

#### *Mathematics 2*

This focuses on Everyday Calculations (+, -,  $\times$  &  $\div$ ), Fractions and Percentages, Interpreting Information and further Measure.

#### *Mathematics 3*

Topics introduced are Number Problems then more Fractions and Percentages, Information Handling, Shape and Measure.

### Assessment and Certification

At the end of each unit a NAB test must be passed. This is sat in class time under examination conditions. There is no final exam and the tests marked within the school.

### Progression

- Upon passing their Access 3 students will start working towards a **Core Skills in Numeracy** qualification at **level 4** (Int 1) **or 5** (Int 2) subject to their ability. Core Skills in Numeracy is selected aspects from the full Mathematics syllabus focussing on Number work and Information Handling. It is also assessed through school based tests and makes a start towards their Int 1 or 2 Mathematics qualification.
- The knowledge learnt and the skills developed along the way are of everyday use in life.

# Mathematics : Intermediate 1 (SQA Level 4)

## Purpose

The aim of this course is to extend students' knowledge and understanding and improve their reasoning and enquiry skills.

## Recommended Entry

Students would normally be expected to have attained a level D in their 5–14 assessment at the end of S2 or a pass at Level 4 Numeracy.

## Course Details

The course is divided into three units of equal length.

### *Mathematics 1*

The content of this unit includes using a calculator; Rounding Numbers; Percentages; Interest; Proportion; Shapes; Formulae; Exchange Rates; Hire Purchase; Wages.

### *Mathematics 2*

This focuses on Displaying Data (Bar and Line Graphs; Stem and Leaf Diagrams; Pie Charts and Scatter Graphs); Time, Distance and Speed; Pythagoras' Theorem; Integers (working with negative numbers) and some more Statistics including Probability and the Mean, Mode and Median.

There is then a choice between further studying Mathematical techniques (Unit 3) and Applied Mathematics learnt with many cross-curricular links (Unit 4). Students need to choose Unit 3 if they wish to progress to Int 2s in Mathematical subjects.

### *Mathematics 3*

Topics introduced are Algebra, Graphs, Trigonometry and Standard Form.

### *Mathematics 4*

This Unit develops further social context calculations (e.g. Wages, Loans and Hire Purchase) and Statistics; Spreadsheets; Logic Diagrams, Flow Charts; Directions; Bearings and Angles.

## Assessment and Certification

At the end of each unit a grade C level NAB test must be passed. If appropriate, a harder test to challenge at A and B grades is also set. Students sit the end of course examination that has three levels of pass: A (70% and above), B (60-69%) and C (50-59%). Students who fail the final exam will receive certification of course completion.

## Progression

- Students may progress to Int 2 Mathematics with an A pass at Int 1.
- The knowledge learnt and the skills developed along the way are a requirement for a wide range of employment and training opportunities as well as being of everyday use in life.

# Mathematics : Intermediate 2 (SQA Level 5)

## Purpose

The aim of this course is to extend students' knowledge and understanding and improve their reasoning and enquiry skills.

## Recommended Entry

Students would normally be expected to have attained a level F (with a A/B grade target at Int 2) or level E (with a pass at grade C target) in their 5–14 assessment at the end of S2 or an A grade pass at Intermediate 1.

## Course Details

The course is divided into three units of equal length.

### *Mathematics 1*

The content of this unit includes working with Percentages; Volume Formulae; Sketching and Finding the Equations of Straight-line Graphs; Manipulating Algebraic Expressions and looking at Angles and Lengths of Lines in Circles.

### *Mathematics 2*

This Unit focuses on Trigonometry for non-right angled triangles and Simultaneous Linear Equations. The Statistics includes the use of Graphs, Charts, Standard Deviation, Semi-Interquartile Range, Line of Best Fit and Probability of an event.

There is then a choice between further studying Mathematical techniques (Unit 3) or Applied Mathematics with many cross-curricular links (Unit 4). Students need to choose Unit 3 if they wish to progress to any Highers in Mathematical subjects.

### *Mathematics 3*

Topics are operations on Algebraic Fractions, Surds, Indices and Changing the Subject of Formulae, Graphs of Quadratic and Trigonometric Functions and their solutions.

### *Mathematics 4*

Topics include Social Context Calculations (e.g. Wages, Loans and Hire Purchase); Spreadsheets; Logic Diagrams and a Statistical Investigation.

## Assessment and Certification

At the end of each unit a grade C level NAB test must be passed. If appropriate, a harder test to challenge at A and B grades is also set. Students sit the end of course examination that has three levels of pass: A (70% and above), B (60-69%) and C (50-59%). Students who fail the final exam will receive certification of course completion.

## Progression

- Students may progress to Higher Mathematics with an A grade pass.
- A wide range of employment and training opportunities (e.g. HNC/D courses.)
- *Most Universities require an Intermediate 2 (A-C) to be the minimum requirement before studying at degree level.*

# Mathematics : Higher (SQA Level 6)

## Purpose

The aim of this course is to extend students' mathematical learning in the areas of Algebra, Geometry and Trigonometry and to introduce students to elementary Calculus. Mathematics 1, 2 and 3 are progressive units.

## Recommended Entry

Students need to have attained an A grade at Intermediate 2.

## Course Details

The course is divided into three units of equal length.

### *Mathematics 1*

This unit includes the Gradient and Equation of the Straight Line, Sketching and identifying related Functions and Graphs, Composite Functions, solution of Trigonometric equations, basic Differentiation and Recurrence Relationships.

### *Mathematics 2*

This content covers Quadratic theory and the Remainder Theorem, basic Integration, use of the Addition Formulae in Trigonometry and the equation of a Circle and Tangency.

### *Mathematics 3*

This unit contains vectors in Three Dimensions and the Scalar Product, further Differentiation and Integration, properties of Exponential and Logarithmic functions and further Trigonometric relationships.

## Assessment and Certification

At the end of each unit a grade C level NAB test must be passed. If appropriate, a harder test to challenge at A and B grades is also set. Students sit the end of course Higher Mathematics examination that has three levels of pass: A (70% and above), B (60-69%) and C (50-59%). Students who fail the final exam will receive certification of course completion.

## Progression

Students who achieve Higher Mathematics may progress to:

- Advanced Higher Mathematic.
- A wide range of employment and training opportunities.
- It is required by many University degrees. Less obvious subjects include Forensic Chemistry, Environmental Health, Management Science, Pharmacy, Sports and Exercise Science and Product Design.

# Mathematics : Advanced Higher (SQA Level 7)

## Purpose

The course introduces many new topics such as Complex Numbers and Matrices while further developing others, for example Series and Formal Proof.

## Recommended Entry

The course is extremely demanding both in workload and intellectual capability. Due to timetabling constraints it is mainly self-taught, so students require a high level of self-discipline to complete the course. Students should be able to demonstrate this commitment and ability with a Higher pass at grade A.

## Course Details

The course is taught from two single periods a week, using text books and the Internet based Scholar distance learning package from Heriot-Watt University.

It is divided into three units of equal length

### *Mathematics 1*

Algebraic skills, Differentiation, Integration, Properties of Functions and Systems of Linear Equations.

### *Mathematics 2*

Further Differentiation and Integration, Complex Numbers, Sequences and Series, Number Theory and Proof.

### *Mathematics 3*

Vectors, Matrices and further work on Sequences, Series, Ordinary Differential Equations, Number Theory and Proof.

## Assessment and Certification

At the end of each unit a grade C level NAB test must be passed. If appropriate, a harder test to challenge at A and B grades is also set. Students sit the end of course Higher Mathematics examination that has three levels of pass: A (70% and above), B (60-69%) and C (50-59%). Students who fail the final exam will receive certification of course completion

## Progression

Students who achieve Advanced Higher Mathematics may progress to:

- A degree in Mathematics, Engineering, the Sciences, Actuarial studies, Econometrics, Operational Research and many others.
- The skills demonstrated are recognized and appreciated in a wide variety of careers and further study even when not specifically requested.

# Media Studies : Intermediate 1

## Introduction

Pupils taking Media Studies will learn to appreciate the different characteristics of the various media: TV, newspapers, radio and film. The course requires pupils to develop an awareness of media texts and understand they are always made from the point of view of a producer who needs to attract an audience for a purpose. Pupils will have the opportunity both to analyse the work of others and to produce their own work.

The range of texts includes fiction (e.g. cinema film, soap opera, magazine/comic strip stories) and non-fiction (e.g. documentary, newspapers, advertisements). The key aspects of Media Studies - Categories, Language, Narrative, Representation, Audience, Institutions, Technology - are integrated into the whole course.

For the Media Production unit pupils will produce an item in one of the same media they study in the two Analysis units. This enables them to see how theory and practice are interlinked.

## Course Details

The course comprises three units.

### *Media Analysis: Fiction*

This unit develops skills in the description of professionally produced fiction media texts and their relationship to social, audience, institutional and technological contexts.

### *Media Analysis: Analysis Non-Fiction*

This unit develops skills in the description of professionally produced non-fiction media texts and their relationship to social, audience, institutional and technological contexts.

### *Media Production*

This unit develops the skills involved in planning, producing and evaluating a group media production.

## Assessment

To gain an award for the course, pupils must pass all the units as well as the course assessment. The course assessment is externally assessed and consists of two components: an Unseen Analysis folio and a 1 hour exam. The Analysis units are internally assessed by closed book descriptions of a media text which has been previously studied. The Media Production unit is internally assessed by an evaluation report looking back at the production process and at the product.

## Progression

Pupils achieving a good pass at Int 1 Media Studies may progress to Int 2 Media Studies or Int 2 English.

## Music Department Courses

All courses last one academic year and pupils will have the chance to take the subject in any, some or all years from S3 – S6. This gives pupils the option to improve their levels of attainment at the end of each annual course, or miss a year and return to a higher level course in music later if they wish to do so. There will be occasions, mainly due to slower progress on their practical instruments, where a pupil may require more time working at one level. In this case the course will be carried into a second academic year to achieve the qualification. This does not prevent them from continuing with a higher level course in a third year. Throughout the music courses both practical instruments must be the same standard for examining.

### Content

Pupils will engage in the following learning activities.

- ♪ Performing music from a wide range of musical styles, including pop, musicals, Scottish traditional, etc.
- ♪ Performing music, solo, on two different instruments (or one instrument and voice)
- ♪ Creating music through composing
- ♪ Listening to music that is relevant, and related to their practical experiences, and developing listening skills which are pertinent to the broadest musical scope.

The courses place a great deal of emphasis on practical music making. This is something that all pupils have been working towards during their first two years in the High School, gaining practical skills on electronic keyboard, guitar and percussion, as well as through access to other instruments via the instrumental tuition scheme. These skills will be further developed during the courses giving all pupils who follow them a sound working knowledge of at least two instruments. This for example, may include acoustic/electric guitars, keyboards, woodwind, strings, brass, drum kit or voice. These practical skills, together with the listening and creative work required, make enjoyable and very worthwhile courses which will give all pupils who follow them an understanding of the music that surrounds them in their everyday lives, as well as the pleasure gained from their playing abilities. Though the courses are primarily practical in nature there are two other elements involved: listening and inventing. Pupils will be encouraged to listen intelligently to all kinds of music, with an emphasis on the Traditional and Modern, rather than on Classical music.

### Assessment

Both solo performances are assessed by a visiting examiner, compositions are internally assessed and externally moderated, and listening is assessed by a written paper set and marked by the SQA.

### Progression

Music can also offer those more vocationally minded a solid step to further education in music through courses at Higher level and beyond.

## Music : Access 3, Intermediate 1 & Intermediate 2

### Aims

The courses aim to enrich the lives of pupils of all levels of ability by providing experience in and enjoyment of individual composing, listening and performing instrumental and/or vocal music.

### Recommended Entry

Candidates would normally be expected to have good standard in 2 practical instruments for Intermediate 2 or a good grounding in 2 practical instruments for Intermediate 1 or have commenced learning 2 practical instruments for Access 3.

### Course Details

Emphasis is placed on the study of music through practical activities which include:

- ♪ Creative expression through composing
- ♪ Listening to music from a wide range of genres, styles and cultures
- ♪ Active participation in solo performing on at least TWO instruments (including voice where chosen).

#### *Music: Performing*

As in all music courses candidates will have the opportunity to develop their performance skills in either:

- ♪ Two instruments    OR    One instrument and voice.

Performances will be to an external examiner in the spring term. The duration being 1<sup>st</sup> instrument – 4 minutes, 2<sup>nd</sup> instrument - 4 minutes for Intermediate 1 & 2. The standard required is Grade 3 equivalent on both instruments for Intermediate 2 or Grade 2 equivalent on both instruments for Intermediate 1. For Access 3 the performance duration being 1<sup>st</sup> instrument – 3 minutes, 2<sup>nd</sup> instrument - 3 minutes and the standard required is Grade 1 equivalent on both instruments. This element is worth 60% of the whole music award.

#### *Music: Listening*

The course provides scope to listen to a variety of music and to develop discriminating awareness of a range of musical and stylistic concepts. This is examined in May at Intermediate 1 & 2 by a 1 hour question paper and at Access 3 by a 40 minute question paper and is worth 40% of the whole music award.

#### *Music: Composing*

At Intermediate 2, candidates will be expected to produce an audio folio lasting at least 1½ minutes and containing 1 or 2 compositions which are original to them. At Intermediate 1 candidates will be expected to produce an audio folio lasting at least 1 minute and containing 1 composition which is original to them. At Access 3, the audio folio will last at least 1 minute and contain 1 composition which is original to them. Candidates will write detailed programme notes and a score/performance plan at all levels. This work is marked Pass/Fail internally and later moderated. The candidate MUST PASS this element in order to achieve the appropriate Music award.

# Music : Higher

## Purpose

To provide experience in and enjoyment of individual composing, listening and performing instrumental and/or vocal music.

## Recommended Entry

Candidates would normally be expected to have attained an Intermediate 2 Music award at grade A or B along with a very secure standard on 2 practical instruments.

## Course Details

Emphasis is placed on the study of music through practical activities which include:

- ♪ Creative expression through composing
- ♪ Listening to music from a wide range of genres, styles and cultures
- ♪ Active participation in solo performing on at least TWO instruments (including voice where chosen).

### *Music: Performing*

As in all music courses candidates will have the opportunity to develop their performance skills in either:

- ♪ Two instruments  
OR
- ♪ One instrument and voice

Performances will be to an external examiner in the spring term, the duration being 1<sup>st</sup> instrument – 10 minutes, 2<sup>nd</sup> instrument - 5 minutes. The standard required is Grade 4 equivalent on both instruments. This element is worth 60% of the whole music award.

### *Music: Listening*

The course provides scope to listen to a variety of music and to develop discriminating awareness of a range of musical and stylistic concepts. This is examined by a 1 hour question paper in May and is worth 40% of the whole music award.

### *Music: Composing*

Candidates at this level will be expected to produce an audio folio lasting at least 2 minutes and containing 2 compositions which are original to them. They will have detailed programme notes and a score/performance plan. This work is marked Pass/Fail internally and later moderated. The candidate MUST PASS this element in order to achieve the Higher Music award.

# Music : Advanced Higher

## Purpose

To provide experience in and enjoyment of individual composing, listening and performing instrumental and/or vocal music.

## Recommended Entry

Candidates will normally be expected to have attained a Higher Music grade A or B award along with a high technical standard on 2 practical instruments and a very good level of essay writing and musical reporting.

## Course Details

Emphasis is placed on the study of music through practical activities which include:

- ♪ Creative expression through composing
- ♪ Listening to music from a wide range of genres, styles and cultures
- ♪ Active participation in solo performing on at least TWO instruments (including voice where chosen)

### *Music: Performing*

As in all music courses candidates will have the opportunity to develop their performance skills in either:

- ♪ Two instruments  
OR
- ♪ One instrument and voice.

Performances will be to an external examiner in the spring term, the duration being 1<sup>st</sup> instrument – 15 minutes, 2<sup>nd</sup> instrument - 10 minutes. This examination is worth 60% of the whole award. The standard required is Grade 5 equivalent on both instruments.

### *Music: Listening*

The course provides scope to listen to a variety of music and to develop discriminating awareness of a range of musical and stylistic concepts. This is examined by a 1 hour question paper in May and this is worth 40% of the whole music award. At Advanced Higher level candidates will have further scope to engage in independent learning, particularly with regard to their research, preparation and writing of a commentary. This is marked internally and moderated by SQA representatives. This element is worth 40% of the whole music award.

### *Music: Composing*

Candidates at this level will be expected to produce an audio folio lasting at least 3 minutes and containing 2 compositions which are original to them. They will have detailed programme notes and a score/performance plan. This work is marked Pass/Fail internally and later moderated. The candidate MUST PASS this element in order to achieve the Advanced Higher Music award.

# PC Passport

## Purpose

PC Passport is one of SQA's premiere ICT qualifications - there are over 30,000 candidates annually. It is a suite of IT user qualifications available at three levels. PC Passport is a National Progression Award (NPA) with SCQF levelling and embedded Core Skills at the appropriate level.

These Courses are **highly vocational**, focusing on **industry standard** software and skills. However, they're not directly related to a specific software manufacturer - instead they seek to teach **transferable skills** that can be used in a range of environments.

PC Passport is designed for anyone who wants to develop or improve their IT skills. It is particularly suitable for the following individuals:

- **School pupils** who want to gain vocational skills
- **College students** who want to acquire IT skills to complement their main field of study
- **Pre-university students** who want a short IT Course prior to commencing university.

## Course details

The course is divided into three levels covering the following areas.

### Beginner

Introduction to the Internet and On-line Communications  
Introduction to IT Software & Presenting Information  
Introduction to IT Systems

The **Beginner** Course is ideal for the absolute novice. No prior experience is required for this level and the component Units are **very** straightforward. (SCQF level 4)

### Intermediate

Internet and On-line Communications  
IT Software - Word Processing and Presenting Info.  
IT Software Spreadsheets and Database  
IT Systems

The **Intermediate** Course is designed for the 'competent user' and focuses on the key skills required in the modern workplace. (SCQF level 5)

### Advanced

Working with Internet and Online Communications  
Working with IT Software  
    - Word Processing and Presenting Info.  
Working with IT Software - Spreadsheets & Database  
Working with Artwork and Imaging  
Working with IT Security for Users

The **Advanced** Course is designed for IT experts - those individuals who co-workers come to for help. (SCQF level 6)

## Assessment and certification

There are no exams in PC Passport. Knowledge and understanding are assessed using objective questions; practical skills are assessed through observation and/or practical exercises.

## Progression on completion

Students who achieve may progress to PC Passport at a higher level, Intermediate 2 Computing. Further education opportunities or a very wide range of employment and training opportunities.

# **Physical Education : Standard Grade**

**For pupils in S4 (who did not study PE in S3) and pupils in S3 only**

## **Aims**

The Standard Grade Physical Education course contains both practical and theory components which require pupils to participate in a range of physical activities and show how the body works, responds to training and how we learn and develop our skills and abilities.

## **Course Details**

Throughout the course the pupil will be an active performer in gymnastics, dance, individual activities, indoor and outdoor team games, and in a variety of roles - player, coach, leader, observer and performer.

The course encourages pupils to make and accept decisions and to take on responsibility. Throughout the course the pupil's practical experience and learning will be supported by checklists used in practical skills, by worksheets requiring structured written and graphic responses, and by oral participation in explanations.

In Standard Grade PE the Knowledge & Understanding and Evaluating sections are worth 50% of the final course award. Therefore, homework and written class work are a vital part of the course. Whilst this is a mostly practical course, theory and understanding are essential and equally important aspects.

## **Assessment**

Candidates will be assessed by a system common to all three levels, Foundation, General and Credit. These assessable elements are Practical Performance, Knowledge & Understanding and Evaluating.

- \* Practical Performance is continually assessed by the teacher throughout the course with assessment standards being checked by the SQA.
- \* An externally assessed written paper combines both the Knowledge & Understanding and Evaluating elements. The subject matter is portrayed on video film which contains a variety of excerpts from several physical activities. The Knowledge & Understanding element will assess the candidate's understanding of facts and principles involved in learning skills whilst the Evaluating element tests that the candidate observes and recommends means of improving the observed performance.

## **Progression**

These processes form the foundation for a more advanced study of movement performance and pupils with a Credit pass at Standard Grade can progress to Higher PE, while those with a good General pass can progress to Intermediate 2.

# Physical Education : Intermediate 2

## Purpose

This course will offer students the opportunity to develop and extend their skills and techniques, enhance their knowledge and understanding and broaden abilities to engage in evaluating, investigating and performance analysis. Throughout the course students will pursue integrated practical experiential studies with performance as the prime focus. The course will aim to develop individual abilities and will contribute to personal and social development.

## Recommended Entry

While entry is at the discretion of the centre, students would normally be expected to have attained one of the following:

- Grade 3 award or better, in Standard Grade PE (with at least a grade 3 for Knowledge & Understanding and Evaluating)
- Intermediate 1 course award in PE or its component units
- other relevant prior experience in physical education, including experience gained outwith certificated courses.

## Course Details

This course comprises two mandatory units as follows:

*Physical Education: Performance*

*Physical Education: Analysis and Development of Performance*

The physical activities undertaken will arise from a process of consultation between staff and students. Each candidate is required to develop their performance with a minimum of two activities. This will be internally assessed and externally moderated.

The Analysis unit requires candidates to observe and reflect on their performance, then consider and apply key concepts which can inform practice and has the potential to bring about improvements. This unit is internally assessed and all outcomes must be passed to allow candidates to sit the final course assessment.

## Progression

Students who achieve Intermediate 2 PE may progress to:

- a Higher course in Physical Education
- units at Higher in Physical Education
- additional units in the Physical Education framework
- a career in amateur/professional sport or dance
- employment in the fitness, health, leisure and recreation industries
- other qualifications, for example SVQs.

# Physical Education : Higher

## Purpose

This course gives candidates the opportunity to study PE at a challenging level and to develop critical and imaginative practice in order to achieve an understanding of performance and the way in which it can be developed. The development of performance is the prime focus of the Higher course in PE whilst also developing knowledge & understanding, evaluating, investigating and performance analysis competencies.

## Recommended Entry

While entry is at the discretion of the centre, students would normally be expected to have attained one of the following:

- Credit Standard Grade PE including Credits in KU and Evaluating
- Intermediate 2 course award in PE or its component units
- other relevant prior experience in physical education, including experience gained outwith certificated courses.

## Course Details

This course comprises two mandatory units, as follows:

*Physical Education: Performance*

*Physical Education: Analysis and Development of Performance*

The physical activities undertaken will arise from a process of consultation between staff and students. Each candidate is required to develop their performance with a minimum of two activities. This will be internally assessed and externally moderated.

The Analysis unit requires candidates to observe and reflect on their performance, then consider and apply key concepts which can inform practice and has the potential to bring about improvements. This unit is internally assessed and all outcomes must be passed to allow candidates to sit the final course assessment.

## Progression

Students who achieve Higher PE may progress to:

- an Advanced Higher course or units in Physical Education
- an HNC/HND in associated subject areas
- a degree in Physical Education
- degree courses in associated subject areas
- a career in amateur/professional sport or dance
- employment in the fitness, health, leisure and recreation industries
- employment in sports/dance development.

# Physics : Intermediate 1

## Aims

This course is designed to give a useful knowledge and understanding of the technology commonly found in modern life. It also develops skills in problem solving and practical work. The study of Physics at this level is valuable for a wide range of career paths and is good preparation for the Physics courses at higher levels.

## Course Details

The course is made up of 6 half units.

*Telecommunications* (e.g. television and telephone)

*Practical Electricity* (e.g. household wiring)

*Radiations* (e.g. Lasers and X-rays)

*Sound and Music* (e.g. sound amplification)

*Movement* (e.g. sport and transport)

*Electronics* (e.g. alarms and control systems)

## Assessment

Each unit will be assessed by an end of unit test and a report on e.g. an experiment. Candidates passing all the unit assessments will be able to sit the end of course Intermediate 1 Physics examination that will be certificated at four levels: A (70% and above), B (60-69%), C (50-59%) and D (45-49%). The exam lasts for 1 hour 30 minutes. Candidates who fail the exam or do not sit it, will receive certification for the unit assessments they pass.

## Progression

Candidates who achieve Intermediate 1 Physics may progress to:

- Intermediate 2 Physics
- Units at Intermediate 2 Physics
- A wide range of employment or training opportunities in a variety of science, health, technical and engineering fields, the construction and manufacturing industries and the armed services.

## Physics : Intermediate 2

### Purpose

This course is designed to increase your knowledge and understanding, problem solving skills and practical abilities in Physics. The study of Physics at this level is valuable for a wide range of career paths and is good preparation for the Higher Physics course.

### Recommended Entry

While entry to the course is at the discretion of the school, you would normally be expected to have attained one of the following:

#### Pupils entering S3

Level E or F in Science **And** level F in Maths.

#### Pupils entering S4

Int 1 Physics grade A **And** be studying towards Int 2 Maths in S4.

Good qualifications in Chemistry or Biology may be considered as an alternative to Int 1 Physics.

#### Pupils entering S5/6

Int 1 Physics grade A **And** Int 1 Maths (with Unit 3) grade A **Or** Int 2 Maths.

Good qualifications in Chemistry or Biology may be considered as an alternative to Int 1 Physics.

### Course Details

The course is made up of 2 units and 2 half-units.

The *Mechanics and Heat* unit includes the study of kinematics (motion), dynamics (forces), momentum and energy, and heat.

The *Electricity and Electronics* unit includes the study of circuits, electrical energy, electromagnetism and electronic components.

The *Waves and Optics* half-unit includes the study of waves, reflection and refraction.

The *Radioactivity* half-unit includes the study of ionising radiations, dosimetry, half-life and safety, and nuclear reactors.

### Assessment

The course includes internal assessment (tests and reports on experiments) and an external examination at the end of the school year. The exam lasts 2 hours and is certificated in the same way as Intermediate 1 Physics.

### Progression

Successful completion of the course may lead to the study of Higher Physics and/or employment in a variety of science, health, technical and engineering fields, the construction and manufacturing industries and the armed services.

# Physics : Higher

## Purpose

This course is designed to give you a deeper knowledge of Physics and a greater understanding of its applications in today's world. You will have the opportunity to develop your problem solving and practical skills. A qualification in Physics at this level is valuable for a wide range of career paths and is good preparation for further study.

## Recommended Entry

While entry to the course is at the discretion of the school, you would normally be expected to have attained the following.

Standard Grade Physics at grades 1 or 2 *Or* Intermediate 2 Physics

*And*

Standard Grade Mathematics at grades 1 or 2 *Or* Intermediate 2 Maths

## Course Details

The course is made up of 3 units of equal length.

The *Mechanics and Properties of Matter* unit involves the study of vectors, equations of motion, Newton's Second Law, energy and power, momentum and impulse, pressure and density, and the gas laws.

The *Electricity and Electronics* unit involves the study of electric fields, resistors in circuits, alternating current and voltage, capacitance and analogue electronics.

The *Radiation and Matter* unit involves the study of waves, refraction of light, optoelectronics and semiconductors, nuclear reactions, dosimetry and safety.

## Assessment

The course includes internal assessment (tests and reports on experiments) and an external examination at the end of the school year. The exam lasts 2 hours 30 minutes and is certificated in the same way and Intermediate 1 Physics.

## Progression

Success in the course could lead to the study of Advanced Higher Physics.

Higher Physics makes a useful contribution to the qualifications required for all science, maths and computing university courses, and also for such varied careers as engineering, medicine and veterinary medicine, radiography, optometry, pharmacy and physiotherapy, architecture and construction, manufacturing, and the armed services.

# Physics : Advanced Higher

## Purpose

This course builds on the Higher Physics course to provide challenge for those who wish to study the subject at greater depth. It develops the knowledge, skills and attitudes necessary for pursuing Physics or Engineering related courses at University level.

## Recommended Entry

While entry to the course is at the discretion of the school, you would normally be expected to have attained the following:

Higher Physics (at grade A or B)

*And*

Higher Mathematics (at grade A or B)

## Course Details

The course is made up of 2 units and 2 half-units.

The *Mechanics* unit includes the study of kinematic relationships and relativistic motion, angular motion, rotational dynamics, gravitation, simple harmonic motion and wave-particle duality.

The *Electrical Phenomena* unit includes the study of electric fields, electromagnetism, motion in a magnetic field, self inductance and forces of nature.

The *Wave Phenomena* half-unit includes the study of waves, interference - division of amplitude, interference - division of wavefront, and polarisation.

The *Physics Investigation* half-unit requires you to carry out an investigation and produce a report of your findings. This involves planning, organisation and designing of experiments, collection and analysis of information.

## Assessment

The course includes internal assessment (tests and reports on experiments), an external written examination at the end of the school year, and an external assessment of the Investigation Report.

## Progression

Advanced Higher Physics is good preparation for anyone going on to study for a degree in Physics, Engineering or Maths. It covers work that would be part of many first year university courses in Scotland.

# Practical Craft Skills

## Engineering Craft Skills (ECS) : Intermediate 1

## Woodworking Skills (WWS) : Intermediate 1

### Aims

This is a practical workshop-based course where pupils learn many skills that are appropriate to a wide range of applications. The course will develop skills in marking-out, cutting, shaping and machining materials. Apart from giving an insight into industrial practice, such studies help with the development of self-confidence, manual dexterity & control, perseverance, maturity and spatial awareness.

### Course Details and Assessment

Both subjects are made up of three course units followed by a course assessment project that combines the work of the individual units. The project is assessed by an External Examiner from SQA.

#### Woodworking Skills

##### Bench Skills 1 – Wood Flat-Frame Construction

- use a range of common hand tools
- make a range of woodworking joints
- manufacture a product from a working drawing.

##### Bench Skills 2 – Wood Carcass Construction

- select and use woodworking materials for specific purposes
- make a range of woodworking joints
- manufacture a product from a working drawing.

##### Machining and Finishing – Wood

- use common machine tools
- use common power tools
- use finishing techniques on timber products
- with the aid of machine and power tools, manufacture a product from a working drawing.

#### Engineering Craft Skills

##### Bench Skills: Metal

- Read and interpret drawings and instructions.
- Use marking out tools and equipment to mark out components.
- Use a range of metalworking hand tools and equipment.
- Plan and manufacture artefacts from working drawings.

##### Machine Processes: Metal

- Use marking out tools and equipment.
- Demonstrate knowledge of common machine tools and equipment.
- Manufacture an artefact from a working drawing.

##### Fabrication and Thermal Joining Techniques

- Apply hot-forging techniques to form and bend steel.
- Apply thermal joining techniques.
- Manufacture an artefact incorporating fabrication and thermal joining techniques from a working drawing.

### Progression

- \* Woodworking Skills or Engineering Craft Skills at Intermediate 2
- \* Employment at operator or semi-skilled level in construction and engineering industries or placement on an industrial training course.
- \* Employment as craft apprentice in the construction & engineering industries.

# Practical Craft Skills

## Engineering Craft Skills (ECS) : Intermediate 2

## Woodworking Skills (WWS) : Intermediate 2

### Aims

This is a practical workshop-based course where pupils learn many skills that are appropriate to a wide range of applications. The course will develop skills in marking-out, cutting, shaping, and machining materials. Apart from giving an insight into industrial practice, such studies help with the development of self-confidence, manual dexterity and control, perseverance, maturity and spatial awareness.

### Course Details and Assessment

Both subjects are made up of three course units followed by a course assessment project that combines the work of the individual units. Course units are similar to units at Intermediate 1 level. Candidates at Intermediate 2 will be required to work with a greater degree of independence and to a higher standard of accuracy.

#### Woodworking Skills

##### Bench Skills 1 – Wood Flat-Frame Construction

- use a range of common hand tools
- make a range of woodworking joints
- manufacture a product from a working drawing.

##### Bench Skills 2 – Wood Carcase Construction

- select and use woodworking materials for specific purposes
- make a range of woodworking joints
- manufacture a product from a working drawing.

##### Machining and Finishing – Wood

- use common machine tools
- use common power tools
- use finishing techniques on timber products
- with the aid of machine and power tools, manufacture a product from a working drawing.

#### Engineering Craft Skills

##### Bench Skills: Metal

- Read and interpret drawings and instructions.
- Use marking out tools and equipment to mark out components.
- Use a range of metalworking hand tools and equipment.
- Plan and manufacture artefacts from working drawings.

##### Machine Processes: Metal

- Use marking out tools and equipment.
- Demonstrate knowledge of common machine tools and equipment.
- Manufacture an artefact from a working drawing.

##### Fabrication and Thermal Joining Techniques

- Apply hot-forging techniques to form and bend steel.
- Apply thermal joining techniques.
- Manufacture an artefact incorporating fabrication and thermal joining techniques from a working drawing.

### Progression

- Woodworking Skills or Engineering Craft Skills at Intermediate 2
- Employment at operator or semi-skilled level in construction and engineering industries or placement on an industrial training course.
- Employment at craft apprentice level in the construction and engineering industries.

## Product Design : Intermediate 2

This course is not available at Intermediate 1. Pupils who opt for this course but do not achieve at Intermediate 2 level may opt to complete the units only (and not sit the final exam).

### Aims

The aims of the course are to:

- \* develop the ability to produce solutions to design tasks
- \* develop knowledge and understanding of basic considerations which have to be addressed when designing commercial products
- \* develop basic graphic skills
- \* develop practical skills in the production of models and prototypes
- \* develop an awareness of commercial manufacturing processes & materials implications of design and manufacture
- \* develop an awareness of economic considerations, and the social and environmental implications of design and manufacture
- \* prepare for further in-depth study of product design and manufacture

### Course Details

There are three mandatory course units plus external assessments.

#### *Product Design: Design Analysis*

1. Produce an evaluation of a commercial product.
2. Establish a design specification from a brief.

#### *Product Design: Developing Design Proposals*

1. Produce a design proposal.
2. Communicate using graphics.
3. Use modelling techniques.

#### *Product Design: Manufacturing Products*

1. Explain the use of particular materials in the manufacture of commercial products.
2. Explain the use of particular processes in the manufacture of commercial products.
3. Produce an orthographic drawing suitable for use in the manufacture of a product.

### Assessment

The external assessment of the Intermediate 2 Product Design Course will consist of two equally weighted components:

- \* Examination Question Paper (1½ hours) 50 marks
- \* Design Assignment 50 marks

### Progression

Candidates who achieve Intermediate 2 Product Design may progress to:

- Higher Product Design
- Further and Higher Education courses involving Design, Manufacturing or Engineering.

# Product Design : Higher

## Aims

- knowledge and understanding of the process and principles of designing
- the ability to analyse and clarify problems in a design context
- an understanding of the issues which influence the design of products
- knowledge and understanding of industrial manufacturing processes and materials
- the application of effective graphic and modelling techniques
- the ability to produce solutions to design tasks by applying knowledge, understanding and problem solving skills
- the ability to effectively communicate and justify solutions to design tasks
- an understanding of economic considerations, and the social and environmental implications of design and manufacture

## Recommended Entry

Pupils would normally be expected to have attained: Int 2 Product Design and/or Int 2 Art & Design.

## Course Details

Three mandatory course units of 40 hours, plus external assessments.

## Design Analysis (Higher)

1. Produce an evaluation of a commercial product.
2. Establish a design specification from a brief.

## *Developing Design Proposals (Higher)*

1. Produce a design proposal.
2. Communicate using graphics.
3. Use modelling techniques.

## Manufacturing Products (Higher)

1. Explain why particular materials are used in manufacturing.
2. Explain why particular processes are used in manufacturing.
3. Produce an orthographic drawing suitable for use manufacturing.

## External Assessment

The external assessment of the course has two equally weighted components:

- Examination Question Paper (2 hours) 70 marks
- Design Assignment 70 marks

## Progression

- progression to Advanced Higher Product Design
- exit to further or higher education courses in design, manufacturing or engineering.

# Rural Skills: Intermediate 1

## Aims

This qualification is one of a number of vocational courses offered by the Scottish Qualifications Authority (SQA) as part of Skills for Work. Rural Skills allows candidates to develop some of the practical skills necessary to work in most of the land-based industries which is of course highly relevant to Sutherland.

## Course Details

The course consists of three mandatory units and two optional units.

Mandatory units,

- Land-based Industries: An Introduction
- Estate Maintenance
- Employability Skills in the Land-based sector

Optional Units

- Animal Husbandry: An Introduction
- Animal Handling: An Introduction

OR

- Crop Production: An Introduction
- Soft Landscaping: An Introduction

All candidates are likely to be interviewed, prior to acceptance for this course.

## Assessment

Assessment in this course will be based on a range of practical activities, in real commercial settings supported by a tutor using observation checklists, self-evaluation reviews and question sheets to confirm knowledge and understanding of the tasks carried out. Portfolio evidence and the use of case studies may be used and in some units there will be an end of course test. There are no exams.

## Progression

This course may provide candidates with opportunities to progress to:

- Scottish Progression Award in Rural Skills at Intermediate 2
- Courses and programmes in Further Education Colleges
- Apprenticeships in land-based industries
- Other suitable training or employment.

# Rural Skills: Intermediate 2

## Aims

This qualification is one of a number of National Progression Awards (NPAs) offered by the Scottish Qualifications Authority (SQA). NPAs are vocational qualifications that recognise the skills and knowledge which are used in the workplace. Rural Skills allows candidates to develop some of the practical skills necessary to work in most of the land-based industries.

## Course Details

The NPA in Rural Skills is a very flexible award. It is made up of two mandatory units; Countryside Land Use and An Introduction to Estate Maintenance. There are a broad range of other units which include,

- Building and Repairing Drystone Dykes
- Aquaculture
- Gamekeeping
- Wildlife Conservation 1 and 2

To achieve the NPA in Rural Skills you must complete the two mandatory units and the four units listed above. Candidates who do not achieve the full NPA will be credited with the units that they have completed.

The course is offered in partnership with Reay Forest Estate, Loch Duart Ltd and the John Muir Trust. Through them we can provide a realistic working environment. All candidates would be expected to participate fully. Health and safety is an important priority and protective clothing and equipment is supplied.

All candidates are likely to be interviewed, prior to acceptance for this course.

## Assessment

Assessment in this course will be based on a range of practical activities, in real commercial settings supported by a tutor using observation checklists, self-evaluation reviews and question sheets to confirm knowledge and understanding of the tasks carried out. Portfolio evidence and the use of case studies may be used and in some units there will be an end of course test. There are no exams.

## Progression

This course may provide candidates with opportunities to progress to:

- Courses and programmes in Further Education Colleges
- Apprenticeships in land-based industries
- Other suitable training or employment.

# Travel & Tourism : Intermediate 1

## Aims

The Intermediate 1 Course in Travel and Tourism is a general interest course designed to introduce candidates, to basic skills, knowledge and understanding relating to a range of occupations in the industry. The course provides a sound broad-based foundation in the full range of travel and tourism available to the consumer in a variety of geographical contexts. The three broad themes are:

destination & product knowledge; consumer service & marketing; impacts & trends.

The principal aim of the Intermediate 1 Course in Travel and Tourism is to prepare candidates to be informed consumers of travel and tourism products. The consumer has to be aware of the full range of travel options which are available and to be familiar with the rules and procedures which are involved in their use. Emphasis is placed on the consumer making as much use as possible of the available facilities of the chosen tourist destinations using a variety of agencies, tourist boards or their equivalent, tourist information centres, visitor attractions and accommodation providers. Differences in time available, budgets and consumer interests have to be considered when consumers make decisions about tourism options.

## Course Details

### *Holiday Planning*

This unit introduces candidates to a variety of factors which influence the choice of different holiday destinations; to the sourcing of holiday information; and to the issues which need to be considered when planning a holiday. Candidates will plan their own holiday as part of a family, a group or alone.

### *Holiday Issues*

This unit introduces candidates to the sometimes complex procedures which need to be followed before a holiday abroad. It will also prepare candidates for situations where things can go wrong and how to cope calmly and effectively with them.

### *Holiday Destinations*

This unit develops candidates' consumer knowledge of tourist destinations.

## Assessment

Each unit will be assessed by an end of unit test. Candidates passing all the unit assessments will be able to sit the end of course Intermediate 1 Travel & Tourism examination that will be certificated at four levels: A (70% and above), B (60-69%), C (50-59%) and D (45-49%). The exam lasts for 1 hour 15 minutes. Candidates who fail the exam or do not sit it, will receive certification for the unit assessments they pass.

## Progression

Candidates who achieve Intermediate 1 Travel & Tourism may progress to:

- Intermediate 2 Travel & Tourism
- Intermediate 2 Geography
- A wide range of employment or training within travel and tourism industries.

## **Travel & Tourism : Intermediate 2**

### **Aims**

The Intermediate 2 course provides a sound broad-based foundation in travel and tourism by examining the development and growth of various sectors of the industry as well as the impact that the industry has on people and places. Facilities and services provided by the local travel and tourism industry are investigated. Finally there is also the opportunity to examine popular travel and tourism destinations.

Travel & Tourism prepares candidates for employment but may also be of interest to anyone with an interest in travel and tourism. The course enables candidates to develop:

- an awareness of the history of and recent changes in travel and tourism
- a knowledge of the positive and negative effects of travel and tourism
- a local view on providers and users of travel and tourism services and facilities
- a knowledge of a selection of popular tourist destinations.

### **Course Details**

The course comprises of three units of equal length.

*Travel and Tourism: An Introduction* focuses on the development of the industry and the economic, social and environmental issues associated with this.

*Business Practices in Travel & Tourism* focuses on structural and operational aspects of the industry together with the role of communications technology and the importance of customer service. An investigation of business practices in the local area is recommended.

*Tourist Destinations* focuses on improving knowledge about a wide range of tourist destinations and providing information for customers about these.

### **Assessment**

Each unit will be assessed by an end of unit test. Candidates passing the all the unit assessments will be able to sit the end of course Intermediate 2 Travel & Tourism examination that will be certificated at four levels: A (70% and above), B (60-69%), C (50-59%) and D (45-49%). The exam lasts for 1 hour 45 minutes. Candidates who fail the exam or do not sit it, will receive certification for the unit assessments they pass.

### **Progression**

Candidates who achieve Intermediate 2 Travel & Tourism may progress to:

- Higher Travel & Tourism *or* Higher Geography
- A wide range of employment or training within travel and tourism industries.

**Higher Travel & Tourism could be offered through Open Learning (supported by the school) - please see Dr Smith if interested.**