

Kinlochbervie High School

Information Booklet for S5/6 Courses

March 2006

Introduction

Pupils in S5 must study English and choose another 4 subjects. In exceptional circumstances, one course may be taken through Open Learning in S5, and 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. 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.

Some subjects may be able to offer Advanced Higher despite no details of the course appearing in this booklet – pupils should speak to individual subject teachers.

Highland Council Open and Distance Learning

Subjects likely to be available at Higher include the following.

History

Philosophy

Modern Studies

Other possibilities include the following.

Intermediate 2 Psychology

Advanced Higher Geography

Beginners Spanish

Edinburgh's Telford College

This is the other provider of open learning we have used in the past, both for full courses within the Higher Still framework and for Short Courses and National Units (two of these will count as a full choice). Pupils interested should contact Dr Smith.

Background

This booklet has information on all courses offered by departments. In the Higher Still framework, courses (called National Courses) are available at many levels, although in S5/6 we offer courses mainly at Higher, Intermediate 2 (Int 2, the level below Higher) and Advanced Higher (AH, the level above Higher). 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 Higher Still framework of courses.

1. Pupils gaining a good Credit at Standard Grade or a good Int 2 pass may take the subject at Higher level in S5.
2. Pupils gaining a good General at Standard Grade or a good Int 1 pass may take the subject at Int 2 in S5.
3. Pupils gaining a good Int 2 pass in S5 may take the subject at Higher level in S6.
4. Pupils gaining a good Higher pass in S5 may wish to continue a subject in S6 at Advanced Higher.

However pupils and parents should be aware that increasingly our experience is that in some subjects such progression is more difficult. Therefore, pupils with a grade 2 at Standard Grade could consider delaying Higher until S6 and take Int 2 in S5, especially if they have not done as well in a knowledge element. Likewise, pupils with a grade 4 at Standard Grade may struggle with Int 2. An A or possibly a B pass (at Int 2 or Higher) is probably 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.

Open Learning 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 (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 open learning are often at least one band lower than would normally be expected (e.g. a C pass, rather than a B).

Further Information

English in S5 is compulsory. Those pupils not able to take a full course in English at Higher or Int 2 will either attempt all the Int 2 coursework units but not sit the final exam or pursue a certificated course in literacy by Open Learning (probably through Telford College). The pupils doing open learning will have a KLB High teacher as their mentor. Such pupils may have the opportunity to join the English class at selected times in order to complete discrete parts of units that are of interest or where they have shown a special aptitude.

Not all the subjects listed will run this year. There must be a sufficient number of pupils interested. Also, it may be that Higher History will only be available through Open Learning. Numbers interested in the Technical subjects and in the different contexts of Home Economics will determine which courses run. It is likely only one of Accounting and Business Management will run.

Please be aware that other courses will not run if there are insufficient numbers, although we will always do our best to meet the needs of the pupils at the school by providing courses ourselves or by arranging courses to be taken through an open learning provider. If a course does not run one year it will have an increased chance of being offered the next.

Examples of Flexibility in Courses Offered (History and Philosophy)

This session both Geography and History have been available to S5/6 pupils. However, History has been done through Open Learning but with a mixture of normal KLB High teacher contact and unsupervised time to work on through OL materials. This system has also been used for Higher Philosophy in the past.

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
Business Management at Credit
Int 2 / Higher Business Management a C level pass for the finance unit.

Course

This course comprises of three mandatory units:

- Financial Accounting: 1 credit (40 hours)

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: 1 credit (40 hours)

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

- Using Accounting Information: 1 credit (40 hours)

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

This is only a very brief course summary for further information please contact Mr McMahon.

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. This paper will be set out in three sections:

Section A Financial 45 marks

Section B Management 40 marks

Section C Financial and Management 15 marks

Section A – Financial

Candidates will be required to answer two mainly computationally based questions drawn from the financial accounting area of the course content. The first question, worth 25 marks, will be compulsory and will relate to company final accounts. A further question, worth 20 marks, will require to be attempted from a choice of three.

Section B – Management

Candidates will be required to answer two mainly computationally based questions drawn from the management accounting area of the course content. The first question, worth 20 marks, will be compulsory and will relate to decision-making. A further question, worth 20 marks, will require to be attempted from a choice of three.

Section C - Financial and Management

Candidates will be required to produce an extended answer to one question worth 15 marks from a choice of four drawn from any part of the course content. The choice will include questions drawn equally from the financial and management accounting areas.

ART AND DESIGN: HIGHER / INTERMEDIATE 2

Purpose

To promote knowledge and understanding of the visual arts and design, their historical development and contemporary applications.

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

While entry is at the discretion of the department, 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 40 hour units, plus 40 hours flexible time which can allow for workshops with visiting artists or visits to exhibitions and art galleries. Please note that not all available levels of the course may run each year. This will depend on pupil uptake of Int 2 / Higher / Advanced Higher

Expressive Activity (40 hours)

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 (40 hours)

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 (40 hours)

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 consists of a 3 hour practical assignment based on the pupil's portfolio of course work and a 2 hour written paper on Critical / Historical studies (1 hour at Intermediate 2).

Progression

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

ART AND 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, Expressive or Art & Design Studies 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 students would also be expected to work in their own time on sketchbooks, research and folio work. There are no formal exams for Advanced Higher, assessment is based on class work folios or research.

Further information on this course from the art department.

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. **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 interviews. It also requires a high level of motivation and commitment to the subject.**

Further information on this course from the art department.

Intermediate 2

Entry to this course is at the discretion of the art department but it can generally be taken by any student who dropped art in S2 and who previously showed some ability in the subject. It requires 7 periods of study weekly and some research work to be carried out in the student's own time. Details of the course requirements are on the previous page.

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.

Structure

The course has two mandatory 40 hour units, a 20 hour investigation unit and one optional 20 hour unit from a choice of three units. In common with all courses, this course includes a further 40 hours over and above the 120 hours for the component units. This may be used for induction, extending the range of learning and teaching approaches, support, consolidation, integration of learning and preparation for external assessment. This time is an important element of the course and advice on its use is included in the course details.

Mandatory units

Cell and Molecular Biology (40 hours)

Environmental Biology (40 hours)

Biology Investigation (20 hours)

Optional units

Biotechnology (20 hours)

Animal Behaviour (20 hours)

Physiology and Exercise (20 hours)

Rationale

The course provides a broad-based, integrated study of a wide range of biological topics which build on the concepts developed in both Higher Biology and Higher Human Biology. The content of the two mandatory units reflects the importance of cell and molecular biology and environmental biology as fundamental areas of science, which form the basis for study in applied fields of biology. The course provides a general basis for further study or employment in areas related to biology and 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. The study of biology at Advanced Higher level contributes to the student's general and vocational education through the acquisition of relevant biological knowledge and skills, and to the development of the more general attitudes and abilities related to the process of science.

The course provides opportunities for students to acquire:

- knowledge and understanding of biological concepts, facts, ideas and techniques and of the application of biology in society and industry
- skills in problem solving
- practical abilities associated with biology
- investigative and reporting skills associated with project work
- positive attitudes such as being open-minded and being willing to recognise alternative points of view, having an interest in biology, in themselves and their environment, being aware that they can make decisions which affect the well-being of themselves and others.

The course content provides clear articulation with both Higher Biology and Higher Human Biology. The topics emphasise the socially and economically relevant applications of cell and molecular biology and environmental biology such as applications of DNA technology and the impact of humans on the environment. The optional units provide the opportunity to select an area of study which could be of economic importance or of intrinsic interest and relevance to the student. The investigation is designed to capitalise on the skills that have been developed by the student in problem solving and practical abilities to produce an extended piece of scientific work.

Assessment and Certification

The AH Biology examination will be certificated at four levels of pass; A, B, C & D.

Internal Assessment

There will be a 40 mark end of unit test of 60 minutes for each of the 40 hour units and a 20 mark end of unit test of 30 minutes for the 20 hour units. In addition, each of these units requires the completion of a report of one experiment. To gain the award of the course, the student must pass all the unit assessments as well as the external assessment.

External Assessment

There will be an externally set question paper and a completed investigation report. The exam paper will be worth 100 marks, 75 marks will be based on mandatory units, and 25 marks on the optional unit. The investigation report will be externally assessed, but marks will be allocated for "management of resources" by the teacher. The external assessor will interview the student. A total of 25 marks will be allocated to the investigation.

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.

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

Control of growth and development, control of the internal environment, study of populations.

Assessment and Certification

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 Higher Biology examination that will be certificated at four levels: A (70% and above), B (60-69%), C (50-59%) and D (40-49%). Students who fail the exam will receive certification for the unit assessments they pass. The course or its units may also form part of one or more Scottish Group Awards.

Progression

Students who achieve Higher Biology may progress to:

- Advanced Higher Biology
- Units at 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: INTERMEDIATE 2

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 3 or 4, or in Intermediate 1 Biology at C pass or above. However, previous experience in biology is not essential and the course could be suitable for those wishing to study biology for the first time who have Standard Grade Physics or Chemistry at Grades 1 - 3.

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 and Certification

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 (40-49%). 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
- Units at Higher 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.

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

One 40 hour unit and one 80 hour unit, plus 40 hours flexible time.

Business Enterprise 40 hours

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 80 hours

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.

BUSINESS MANAGEMENT: INTERMEDIATE 2

Purpose

To enable students to explain the activities of businesses, particularly with respect to the main functional areas which characterise the operation of all businesses. The course highlights the contexts within which effective decision making can take place. It also focuses on the role that information technology plays in the activities of business and business-related organisations with particular attention to the use of spreadsheets and databases.

Recommended Entry

Entry is at the discretion of the teacher of Business Studies.

Course Details

One 40 unit and one 80 hour unit, plus 40 hours flexible time.

Business Enterprise 40 hours

This unit should enable students to:

- explain the role of business enterprise in contemporary society
- explain the nature and importance of business information
- explain decision making in business enterprises.

Business Decision Areas 80 hours

This unit should enable students to:

- explain the marketing function in an organisation
- explain the finance function in an organisation
- explain the human resource function in an organisation
- explain the operations function in an organisation
- explain the uses and importance of ICT to the operation of organisations.

Progression

- Higher Business Management
- HNC/D e.g. Business Administration.
- a range of employment opportunities in administrative roles.

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 level/Int 2 course. 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
- Intermediate 2 Chemistry course or its component units and Standard Grade Mathematics at Grades 1 and 2 or Int 2 Mathematics.

(The preferred entry from Standard Grade is based on achievement in the Knowledge and Understanding and Problem Solving elements.)

Course Details

The course is divided into three units of equal length.

Unit Details

Energy Matters 40 hrs

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 40 hrs

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 40 hrs

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
- 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.

CHEMISTRY: INTERMEDIATE 2

Purpose

The course is designed for students who wish to continue their study of chemistry beyond General level 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.

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 3 and 4 and Standard Grade Maths at Grades 3 and 4.
- Standard Grade Biology or Physics at Grades 1 to 3.

(The preferred entry from Standard Grade is based on achievement in the Knowledge and Understanding and Problem-Solving elements.)

Course Details

The course is divided into three units of equal length.

Unit Details

Building Blocks 40 hrs

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 40 hrs

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 40 hrs

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

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.

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.

Assessment and certification

Each unit is internally assessed. This will represent 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 or PC Passport
- 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

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Assessment and certification

Each unit is internally assessed. This will represent 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 or PC Passport
- 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.

PC PASSPORT

Purpose

PC Passport is a new suite of qualifications awarded by the Scottish Qualifications Authority (SQA). The scheme is perfect for students who want to learn how to use computers and popular Microsoft packages. PC Passport is made up of National Units recognised by employers and training providers and is available at three levels.

Course details

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

Beginner

- Internet
- Word processing
- Spreadsheets

Intermediate

- Internet
- Word processing
- Spreadsheets
- Presentations

Advanced

- Internet
- Word processing
- Spreadsheets
- Presentations.

Assessment and certification

Each unit is internally assessed. Students can gain a Scottish Progression Award if all units at any level are completed.

Progression on completion

Students who achieve may progress to

- PC Passport at a higher level
- Intermediate 2 Computing or Higher Computing
- Further 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.

ENGINEERING CRAFT SKILLS: INTERMEDIATE 2

Purpose

This course will contribute to the knowledge, understanding and practical experience of the student whose aspirations and abilities are towards practical work or who is considering a career in the engineering or construction industry in whatever capacity he or she is employed. It will make a positive contribution to the general education and personal development of any student, particularly in fostering technological capability. In this respect it is recommended to any students who wish to gain experience and an appreciation of materials and useful craft skills.

Recommended Entry

While entry is at the discretion of the centre, the student would normally be expected to have had previous experience in craft skills.

Course Details

Bench Skills: Metal 40 hours

- 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 40 hours

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

Fabrication and Welding 40 hours

- Apply hot forging techniques to form and bend steel.
- Apply arc and resistance welding techniques.
- Manufacture an artefact from given working drawings, using fabrication and welding techniques.

Progression

- Woodworking Skills at Intermediate 2
- Craft & Design at Intermediate 2 or Higher
- 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 construction and engineering industries.

Costs of Materials

This course requires students to make a final project piece. This may be taken home at the end of the course, subject to a contribution being received towards the costs of materials. If this is not received, the piece will be recycled or sold in aid of e.g. PTA funds.

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, each lasting 40 hours.

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 RPR 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.

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

Entry to the course will be at the discretion of the school. 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 an Intermediate 2 programme of study or equivalent.

Course Details

The course comprises three units.

Language Study 40 hours

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 40 hours

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 20 hours

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: Internal and External

The award of Higher 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 1 hour 30 minutes.

Internal assessment

- **Language:** 1 x Close Reading
1 Essay (on-going within the Unit)
- **Literary:** 1 Textual Analysis
- **Personal Study:** 1 assessment - **either** written **or** spoken

External assessment

- **Exam:** Paper 1 - Close Reading
Paper 2 - 2 x Critical essay

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 and independent reading/study will be ongoing.

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: 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

Entry to the course will be at the discretion of the school, but Students are expected to have attained a General award at Standard Grade or to have successfully completed an Intermediate 1 programme of study or equivalent.

Course Details

The course comprises three units.

Language Study, 40 Hours

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, 40 Hours

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, 20 Hours

This Unit will offer a personal choice of content eg: 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

Internal assessment

- **Language:** 1 x Close Reading
1 Essay (on-going within the Unit)
- **Literary:** 1 Textual Analysis
- **Personal Study:** 1 assessment - **either** written **or** spoken

External assessment

- **Exam:** Paper 1 - Close Reading
Paper 2 - 2 x Critical essay

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.

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

Two units (one of 80 hours and one of 40 hours) plus 40 hours flexible time.

Language

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

Or Language in Work

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
- 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.

FRENCH: INTERMEDIATE 2

Purpose

The aim of this course is to offer progressive development of competence in the four skill areas of listening, speaking, reading and writing. Candidates will be able to focus on either oral or written communication. However the written communication option in the second unit is strongly recommended for progression to the full Higher course.

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 1 Modern Languages or its component units
- Standard Grade award at grades 3 (preferred) or 4.

Course Details

Two units (one of 80 hours and one of 40 hours) plus 40 hours flexible time.

Language

This unit will emphasise progression 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 begin to place emphasis on expressing points of view and exchanging ideas.

AND

Either Personal Communication

Or Language in Work

Of the two options above, students will study one, depending for example on prior performance, on individual preference or on the personal or vocational needs or interests of the student. All four skills will continue to be developed in each option.

Progression

On successful completion of the course, the following pathways will be open:

- Higher units or course in the same language
- possibly NC courses including foreign language
- courses offered by foreign language agencies at appropriate levels
- employment, making use of foreign language competence.

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 Int2 or Higher in another social subject.

Course Details

The course comprises three mandatory units, each of 40 hours, plus 40 hours of flexible time.

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.

GEOGRAPHY: INTERMEDIATE 2

Purpose

The purpose of this course is to develop further, within a balanced structure, knowledge and understanding of geographical methods and techniques, concepts and key ideas. It is also intended to develop skills of investigating and evaluating. Problem solving skills are applied through the identification and evaluation of key issues.

Recommended Entry

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

- a grade 3 or 4 at Standard Grade in Geography or another social subject
- the Intermediate 1 course or component units in Geography
- an Intermediate 1 or 2 course or component units in another social subject.

Course Details

The course comprises three mandatory 40 hour units with a choice of topics within each unit. When taken as a course the units provide opportunities to deal with both the developed and the developing world. The choice of topics within units ensures that both physical and human geography can be studied. The topics also offer variety which can meet the different needs of students.

Physical Environments

Within the context of the British Isles, a selection of landscape types and their impact on land use is studied.

Human Environments

Taking examples from across the world, case studies of population, cities, industry and farming are studied.

Environmental Interactions

A range of global issues and strategies to deal with them, are studied. Two out of five topics are chosen, with this school focussing on land degradation, development & health and environmental hazards.

Progression

From the achievement of an Intermediate 2 course or units students may be able to progress to the course or units at Higher. Alternatively, students could progress to an Intermediate 2 course or units in another social subject or to employment.

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

Three mandatory 40 hour units, plus 40 hours flexible time. Each unit would have 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.

HISTORY: INTERMEDIATE 2

Purpose

The purpose of this course is to develop further, within a balanced structure, knowledge and understanding of historical concepts through study of chosen contexts. It is also intended to develop skills of evaluating and of investigating.

Recommended Entry

While entry is at the discretion of the centre, students would normally be expected to have attained a grade 3 or 4 at Standard Grade in History or another social subject or Intermediate 1 in History or Geography.

Course Details

The three mandatory units would differ in the contexts offered to allow for breadth and balance of historical coverage. Each would have identical outcomes, so they could be taught in any order and would reinforce each other.

Historical Study: Scottish and British 40 hours

Historical Study: European and World 40 hours

Historical Study: Options 40 hours

These units have a range of specific content options. The outcomes would cover knowledge and understanding, skills of finding out and of drawing conclusions. They would develop skills of functional writing (or oral response) and sustained, reasoned argument.

Course assessment

It is envisaged that course assessment would be through an external examination which would assess content and outcomes from the mandatory units and an extended task, undertaken in controlled conditions and assessed externally

Progression

From the achievement of an Intermediate 2 unit or course students may be able to progress to units or courses at Higher in History or another social subject. They may also progress to further education programmes in arts and social sciences or other areas. They may also progress to a range of employment or vocational training opportunities. Intermediate 2 History will contribute to Scottish Group Awards.

LIFESTYLE AND CONSUMER TECHNOLOGY (LCT) or FASHION AND TEXTILE TECHNOLOGY (FTT): HIGHER

Context

Both these courses are offered by the Home Economics department and both have similar formats. It may be possible to allow both to run.

Purpose

Both courses provide opportunities for students to develop specialist skills, acquire and apply knowledge and achieve technological capability. A practical approach will make the course particularly appealing to those who may wish to progress to the vocational areas of the care and hospitality industries and the consumer end of the food industry and/ or the fashion and textile industries. This course also provides learning experiences that will promote the development of problem solving skills and personal effectiveness in real-life situations.

Recommended Entry

Credit at Standard Grade, or Int 2, or "new starts" at the discretion of the teacher; taking English at Higher is also highly desirable.

Course Details

Both courses have two mandatory units and one 20 hour technological project (to produce a new product designed to meet a brief set and marked by SQA).

Resource Management 80 hours

At the end of this unit, students will be able to use management skills necessary for the effective use of materials and resources. Students will demonstrate technological capability in solving problems and applying knowledge and understanding of LCT or FTT to a range of situations.

Consumer Studies 40 hours

At the end of this unit students will have acquired knowledge and understanding about consumer choice of goods and services. They will also have gained an insight into the manufacturers and/or providers perspective on a range of relevant consumer issues. Students will be able to appraise the design of products and consider the consequences that technological developments have on others. They will be able to use a range of investigative skills enabling them to draw conclusions from information sources and make reasoned choices, which are a requirement for the discerning consumer.

Progression

- * University and further education courses in the consumer and service or fashion and textile industries
- * Employment in the consumer and service or fashion and textile industries.

LIFESTYLE AND CONSUMER TECHNOLOGY (LCT) or FASHION AND TEXTILE TECHNOLOGY (FTT): INTERMEDIATE 2

Contexts & Purpose

As for Higher.

Recommended Entry

Standard Grade General, or Int 1, or "new starts" at the discretion of the teacher; taking English at Intermediate 2 or Higher is also highly desirable.

Course Details

Both courses have three mandatory units and one 20 hour technological project (to produce a new product designed to meet a brief set and marked by SQA).

Management of Practical Activities 40 hours

At the end of this unit students will be able to use knowledge and understanding to select appropriate resources in order to carry out a practical activity, which relates directly or indirectly to food production / textile item production. The student will be able to use time and energy effectively in the planning and carrying out of the activity and evaluate its success.

Consumer Studies 40 hours

At the end of this unit students will be able to use investigative techniques to compare consumer products and services / textile products.

Product Development 40 hours

At the end of this unit students will be able to demonstrate technological capability as a result of using knowledge, understanding and skills to carry out problem solving processes used in product development.

Progression

- * Higher Home Economics
- * Employment in the consumer and service / fashion and textile industries.
- * University and further education courses in the consumer and service industries and/or fashion and textile industries.

FTT OR LCT: INTERMEDIATE 1 (for S6 only)

It is possible to work on these course or their individual units to increase skills or knowledge to suit on an individual basis. For further details see Mrs MacLeod.

PRACTICAL COOKERY (HOSPITALITY): INTERMEDIATE 2

This course is designed for pupils who wish to become a professional cook or chef. For further details see Mrs MacLeod.

CREATIVE CAKE PRODUCTION: INTERMEDIATE 2

This course is designed for pupils who wish to become a baker or confectioner. For further details see Mrs MacLeod.

MATHEMATICS: ADVANCED HIGHER

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 intellectually capability. 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 and only under exceptional circumstances a grade B student.

Course Details

The course is taught with only two periods of contact time, the remainder uses the SCHOLAR distance learning Internet based package from the Heriot Watt University to supplement textbooks.

It is divided into three units of equal length. There are Applied Mathematics options of Statistics, Mechanics and Numerical Analysis, which may be available after discussion with the school.

Mathematics 1: Algebraic skills, differentiation, integration, properties of functions and systems of linear equations.

Mathematics 2: Further differentiation & 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%).

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.

MATHEMATICS: HIGHER

Purpose

The aim of this course is to build upon and 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 a Standard Grade Credit award (level 1 or 2) or 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 The content of this unit 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%).

Progression

Students who achieve Higher Mathematics may progress to:

- Advanced Higher Mathematics
- 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: INTERMEDIATE 2

Purpose

The aim of this course is to build upon and extend students' knowledge and understanding in addition to improving their reasoning and enquiry skills. The course is broadly equivalent in difficulty to the Credit level of Standard Grade.

Recommended Entry

Students would normally be expected to have a General pass at Standard Grade.

Course Details

The course is divided into three units of equal length.

Mathematics 1 The content of this unit includes percentages' calculations; volumes' 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 The mathematics content is trigonometry for non-right angled triangles and simultaneous linear equations. The statistics includes the use of graphs, charts, standard deviation, semi-interquartile range, the equation of a line of best fit and assigning probability to an event.

There is then a choice between further studying Mathematical techniques (3) or applying those already learnt with many cross-curricular links (4).

Mathematics 3 Topics are operations on algebraic fractions, surds, indices and change of subject 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. The end of course exam has three levels of pass: A (70% and above), B (60-69%) and C (50-59%).

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 a Standard Grade (1-3) or Intermediate 2 (A-C) to be the minimum requirement before studying at degree level.*

MUSIC: ADVANCED HIGHER

Purpose

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

Recommended Entry

While entry is at the discretion of the centre, candidates would normally be expected to have attained a Higher Music grade A or B award.

Course Details

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

- ♪ 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 1st instrument – 15 minutes, 2nd instrument - 10 minutes. This examination is worth 60% of the whole music award. The standard required is Grade 5 equivalent.

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.

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.

MUSIC: HIGHER

Purpose

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

Recommended Entry

While entry is at the discretion of the centre, candidates would normally be expected to have attained a Credit level at Standard Grade or Intermediate 2 Music award at grade A or B.

Course Details

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

- ♪ 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 1st instrument – 10 minutes, 2nd instrument - 5 minutes. The standard required is Grade 4 equivalent.

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.

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: INTERMEDIATE 2

Purpose

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

Recommended Entry

While entry is at the discretion of the centre, candidates would normally be expected to have attained a General level at Standard Grade or Intermediate 1 music award at grade A or B.

Course Details

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

- ♪ 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 1st instrument – 4 minutes, 2nd instrument - 4 minutes. The standard required is Grade 3 equivalent.

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.

Music: Composing

Candidates at this level will be expected to produce an audio folio lasting at least 1½ 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 Intermediate 2 Music award.

MUSIC: INTERMEDIATE 1

Purpose

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

Recommended Entry

While entry is at the discretion of the centre, candidates would normally be expected to have attained a Foundation level at Standard Grade i.e. level 5/6.

Course Details

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

- ♪ 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 1st instrument – 4 minutes, 2nd instrument - 4 minutes. The standard required is Grade 2 equivalent.

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.

Music: Composing

Candidates at this level will be expected to produce an audio folio lasting at least 1 minute 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 Intermediate 1 Music award.

PC PASSPORT

Purpose

PC Passport is a new suite of qualifications awarded by the Scottish Qualifications Authority (SQA). The scheme is perfect for students who want to learn how to use computers and popular Microsoft packages.

PC Passport is made up of National Units recognised by employers and training providers and is available at three levels.

Course details

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

Beginner

- Internet
- Word processing
- Spreadsheets

Intermediate

- Internet
- Word processing
- Spreadsheets
- Presentations

Advanced

- Internet
- Word processing
- Spreadsheets
- Presentations
- Databases

Assessment and Certification

Each unit is internally assessed. Students can gain a Scottish Progression Award if all units at any level are completed.

Progression on Completion

Students who achieve may progress to

- PC Passport at a higher level
- Intermediate 2 Computing or Higher Computing
- Further 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.

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 (60 hours)

Physical Education: Analysis and Development of Performance (60 hours)

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

- 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.

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 60 hours

Physical Education: Analysis and Development of Performance 60 hours

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

- 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.

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/College level.

Entry requirements

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 Outline

The course is made up of 2 units (40 hours each) and 2 half-units (20 hours each).

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.

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.

Entry requirements

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 Outline

The course is made up of 3 units taking 40 hours each.

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.

Progression

Successful 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: 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.

Entry requirements

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 3 or 4 **Or** Biology or Chemistry at grades 1-3

Or Intermediate 1 Physics

And

Standard Grade Mathematics at grades 3 or 4 **Or** Intermediate 1 Maths

Course Outline

The course is similar to Standard Grade Physics in content, but not in the style. It is made up of 2 units (40 hours each) and 2 half-units (20 hours each).

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.

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.

PRODUCT DESIGN: HIGHER (formerly Craft & Design)

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

Students would normally be expected to have attained: Std Grade Credit Craft & Design; Std Grade Credit, Art & Design; Int 2 Craft & Design; Int 2 Art & Design.

Course Details

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

Product Design: Design Analysis (Higher)

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

Product Design: Developing Design Proposals (Higher)

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

Product Design: 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, etc.

Costs of Materials

This course requires students to make a final project piece. This may be taken home at the end of the course, subject to a contribution being received towards the costs of materials. If this is not received, the piece will be recycled or sold in aid of e.g. PTA funds.

PRODUCT DESIGN: INT 2 (formerly Craft & Design)

Aims

- 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 and modelling skills
- develop an awareness of commercial manufacturing processes and materials
- 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

Recommended Entry

While entry is at the discretion of the center, students would normally be expected to have attained: Standard Grade, Craft and Design at grade 3 or 4; Standard Grade, Art and Design at grade 3 or 4.

Course Details

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

Product Design: Design Analysis (Higher)

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

Product Design: Developing Design Proposals (Higher)

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

Product Design: 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 in manufacturing.

External Assessment details

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

This Course or its component Units may provide progression in the following way:

- progression to Higher Product Design

Costs of Materials

This course requires students to make a final project piece. This may be taken home at the end of the course, subject to a contribution being received towards the costs of materials. If this is not received, the piece will be recycled or sold in aid of e.g. PTA funds.

Religious, Moral and Philosophical Studies (RMPS) Intermediate 2

Aims

RMPS at Intermediate 2 deals with the inter-relationships between religions, moral and philosophical concepts and issues. The ability to provide explanations and make personal responses to various issues requires knowledge and understanding of basic texts, and some of the religious, moral and social influences in today's world. In addition, an investigative element provides candidates with the opportunity for a further enquiry into a religious, moral or philosophical issue.

Content

The component units of this course require candidates to attain a certain level of knowledge and understanding and the ability to analyse and evaluate issues. Candidates study one mandatory unit and two optional units.

Mandatory Unit

Making Moral Decisions

There is a choice of an area from the following: Medical Ethics, Human Relationships, Human Rights

Optional Units (two will be chosen from the following)

Nature of Belief

There is a choice of an area from the following: Existence of God, Science & Belief, Belief & Action

Religion And The Social World

The areas of study are: Family, Growing Up, Work

Justice In The World

There is a choice of an area from the following: Social Justice, Global Solidarity

Assessment

To gain the Intermediate 2 award, candidates must pass all the unit assessments, as well as the external assessment. The external assessment consists of two parts: (1) an assignment worth approximately 30% of the final mark (this will be a structured response written under exam conditions, duration 1.5 hours), (2) an examination paper worth approximately 70% of the final mark, duration 1.5 hours.

Further Study and Career Options

Intermediate 2 articulates well with respective units at higher, with progress to Advanced Higher possible thereafter. RMPS is a step towards a wide range of university courses in Humanities, as well as providing invaluable skills in any chosen career.

WOODWORKING SKILLS: INTERMEDIATE 2

Purpose

This course will contribute to the knowledge, understanding and practical experience of the student whose aspirations and abilities are towards practical work or who is considering a career in the engineering or construction industry in whatever capacity he or she is employed. It will make a positive contribution to the general education and personal development of any student, particularly in fostering technological capability. In this respect it is recommended to any students who wish to gain experience and an appreciation of materials and useful craft skills.

Recommended Entry

While entry is at the discretion of the centre, the student would normally be expected to have had previous experience in craft skills.

Course Details

Bench Skills 1 (Wood): Flat-Frame Construction 40 hours

- 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 40 hours

- Select and use woodworking materials for specific purposes.
- Make a range of appropriate woodworking joints.
- Manufacture a carcass component from a working drawing.

Maintenance and Finishing: Wood 40 hours

- Use common machine tools.
- Use common power tools.
- Use systematic preparation and finishing techniques on timber products.
- With the aid of machine and power tools, manufacture a product from a working drawing.

Progression

- Engineering Craft Skills at Intermediate 2
- Craft & Design at Intermediate 2 or Higher
- Employment at operator or semi-skilled level in construction industries or placement on an industrial training course
- Employment at craft apprentice level in construction industries.

Costs of Materials

This course requires students to make a final project piece. This may be taken home at the end of the course, subject to a contribution being received towards the costs of materials. If this is not received, the piece will be recycled or sold in aid of e.g. PTA funds.