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UPPER SCHOOL COURSES

INTRODUCTION

Courses on offer to S5 and S6 pupils are mainly National Qualifications at Advanced Higher, Higher, Intermediate 2 and Intermediate 1.

The programme of courses chosen in fifth year can be

- a) entirely Higher subjects
- b) entirely Intermediate
- c) a mixture of Higher and Intermediate

Sixth year students have the additional choice of taking Advanced Higher.

The thirty periods of the school week are divided into five blocks of six periods each. This permits the study of five subjects. For some subjects, blocks of six periods are sub-divided into two smaller blocks of three periods each, for the study of Scottish Qualifications Authority National Units at Intermediate One or Two levels.

The course chosen in fifth year therefore can be entirely Higher subjects or entirely Intermediate or a mixture of Higher and Intermediate with Advanced Higher being an additional choice for Sixth Year pupils.

CHOICE PROCEDURE

For fourth year pupils going into fifth year and fifth year pupils going into sixth, the Choice process is introduced in early February. At this time, the Choice programme in Upper School is fully explained. A draft Option Request Form is distributed and pupils are invited to consider what they might like to do and to discuss their ideas with subject and Pupil Support Guidance staff. The final version of the Option Request Form is issued in late February with pupil returns used to construct the upper school timetable for next session.

FIFTH YEAR

Fifth year pupils are expected to return to school for a programme of full-time education. They are expected to have a full 30 period timetable. Higher courses will start in June immediately following the SQA examination diet. Normally a Higher or Intermediate course will be undertaken in one year.

SIXTH YEAR

The course for Sixth year pupils is mainly a re-selection process based on their experience in S5 and the results of examinations, although some pupils resume study in a subject previously studied to Standard Grade level in S4. Where an S6 pupil does not have a full timetable of classes, attendance at 'organised study' is arranged to offer additional support.

A potential problem for S6 pupils is that they do not take on a sufficiently challenging course to keep themselves motivated and challenged. Often lethargy can result which damages their SQA exam results and leads to habits

which make it difficult to rise to the challenge of university, college, training or employment the following year. Strathaven Academy staff will strongly advise against any chosen course which appears as though it might produce such a result. There is a wide range of activities in our Partnership Programme available for S6 pupils with a less than full timetable. As this is the kind of extra input valued by institutions of Higher Education, the school encourages participation.

SQA (SCOTTISH QUALIFICATIONS AUTHORITY)

This is the body with responsibility for National Attainment and Certification.

NATIONAL QUALIFICATIONS

Advanced Higher

A broad range of Advanced Higher subjects is offered each year. Some subjects such as English, Maths, Chemistry and Biology have enough pupil uptake to run every year but the school will only consider running Advanced Higher in other subjects if resources permit and a viable group of sufficiently able and interested pupils emerges.

An essential element of an Advanced Higher subject is that pupils become more self-sufficient and undertake study, research and investigation with help and guidance from the class teacher.

Higher

The 'Highers' are the main element of the upper school course. They are the usual qualifications for entry to Higher Education. They normally follow on from a 'Credit' pass at Standard Grade. Higher courses demand hard work, motivation and a very high level of commitment.

Over a number of years, it has been our experience that the majority of pupils who obtained a Credit 1/2 at Standard Grade passed the Higher. Success at Higher from a General level 3 at Standard Grade does happen each year but only for a small and very hard-working minority of those who attempt it. This is further explained in a separate sheet later in the booklet.

Pupils who achieve Standard Grade passes at Credit 1 or Credit 2 in five or more subjects, and attend regularly, study consistently and work hard from the beginning of the Higher course are quite capable of passing 5 Highers, and often do.

Intermediate 1 and Intermediate 2

A number of subjects will be offering Intermediate 1 and/or Intermediate 2 courses. Intermediate 2 courses will be chosen largely by pupils who obtain Standard Grade General level passes. Intermediate 1 courses will normally be selected by pupils who obtain Foundation level passes at Standard Grade.

SQA National Units

These are shorter courses of study. Pupils who are interested in such courses in any particular subject area should ask for information about the available range from the subject Principal Teacher.

PATHWAY – NATIONAL QUALIFICATIONS

The national qualifications provide a curricular pathway for all pupils. For example, a pupil who achieves a Grade 3 at Standard Grade can progress to Intermediate 2 in fifth year followed by Higher in sixth year.

The following table provides an overview of this pathway –

S4	S5	S6
Standard Grade Credit (1 or 2)	Higher	Advanced Higher
General (3 or 4)	Intermediate 2	Higher
Foundation (5 or 6)	Intermediate 1	Intermediate 2

However, there may be exceptions to the above. The individual subject sections will provide more accurate information regarding progress from S4

STRUCTURE

All the Higher and Intermediate courses comprise of units, which will be assessed internally, and an end of course examination set externally by SQA. To gain the course award a pupil **MUST** pass all the internal and the external assessments. There will be formal partial certification where pupils are unsuccessful in passing all internal and external assessments. At both National and Local Authority level, the stated policy for internal assessment of units is **one** assessment and, if needed, **one** reassessment. A second reassessment will only be considered if there are exceptional circumstances for failing the two previous assessments. The norm following two failures will be recommendation to move to a lower level.

Interestingly, although we would caution the average pupil about taking on too much at Higher, our statistics indicate that the opposite is true for the most able pupils. The school has quite a number of S4 pupils each year who pass all or the large majority of their Standard Grades at Credit level 1. Study of the results from these pupils shows that the level of results from those who attempted five Highers was as good as, or better than, those of the same ability who attempted four or even three Highers.

New courses start in the month of June and pupils must attend all classes during the weeks of intensive study before the summer break. Work is demanding and regular attendance is essential. An early holiday in June or late holiday in September will severely disadvantage pupils.

MAKING CHOICES

Before going through the choice process, pupils will have followed a programme in Personal Social and Health Education, which has helped them to plan ahead and explore all the available options.

Most pupils choosing to move on to S5 or S6 next year will have some idea of a career or future plans. Advice from Pupil Support staff, Mr Ritchie (Depute Head Teacher, Upper School), and the Careers Service is available to all pupils. The Careers Library is available with all its detailed information. The most important thing for each individual to find out is whether returning to school is the best thing to do.

The next step is to find out which subjects are essential as qualifications for any chosen career and to ensure the course also has the breadth and balance to allow for any future change of plans. Once again, Pupil Support and Careers staff are there to help.

It is also very important that pupils are realistic about their abilities and clear about what their planned future course demands. It is wise to consult with the class teacher and the subject Principal Teacher to ensure that planned subject targets are achievable. Success is never guaranteed and the school would encourage ambitious young people to go "all out" for what they want to do. However, there is little point in a future plan which is very likely to lead to failure and disappointment.

EXPECTATIONS OF S5 AND S6 PUPILS

Some pupils will be returning to school in S5 until Christmas because they are not yet of statutory school leaving age; not being 16 years old until after 30/09/2008. Full provision is made for them. The large majority of those who return however will be intending to complete a full fifth year voluntarily and many also a full sixth year in school. All will be pupils of Upper School and, as such, we will expect them to show an appropriate level of maturity and responsibility.

During the summer term of this session, S4 and S5 pupils will be taken through both a general and a subject specific induction course for Upper School. The subject induction will cover the main aspects of the course such as unit content, timing and type of assessments. The general induction will be carried out by Pupil Support staff and will, amongst other things, look at entitlement and responsibility; calendar for the year; self and subject monitoring; progress and pathways. The Upper School Assembly is the main point of contact between Mr Ritchie, the Head of Upper School and the pupils of S5 and S6. It is a vital information giving and administration session and attendance by senior pupils is compulsory.

All Upper School pupils will follow a structured course of Personal, Social and Health Education (PSHE) designed to help them develop towards the next stage in their education/career and to address a number of issues which feature in and influence their lives. This is important, because seeking employment,

entering Skills Training or going to a Further Education College will be a wiser choice for a number of pupils than returning to school. For the large group of pupils who intend to apply for entry to Higher Education, the information provided and skills learned in the course will prove extremely valuable.

SUBJECTS

The following pages contain information on the subjects which departments would like to offer next session and the level(s) at which they would wish to offer them.

It may be that a particular course(s) will not run next session, perhaps because a viable number of pupils have not selected the course for study.

IMPORTANT STATISTICAL INFORMATION

The table below contains important National information for pupils entering S5 and their parents.

The information is provided by the SQA. It shows the percentage chance of gaining a Higher pass (A-C) in the individual subjects based on the pupil gaining a Standard Grade Level 2 or 3 in the subject.

There is a comparison between the years 1993-1995 and the more recent figures for 2002.

This information is designed to help pupils make an informed and realistic choice of level of study in S5. In some cases it will be wiser to study a subject at Intermediate 2 in S5 and attempt the Higher in S6.

SQA NATIONAL STATISTICS								
Subject	Grade 2				Grade 3			
	1993	1994	1995	2002	1993	1994	1995	2002
English	82%	81%	79%	66%	41%	38%	36%	34%
French	48%	51%	57%	59%	7%	7%	10%	14%
German	46%	41%	55%	53%	6%	9%	19%	8%
Accounting and Finance	65%	68%	62%	63%	33%	26%	22%	37%
Mathematics	58%	51%	48%	37%	21%	17%	16%	17%
Biology	53%	53%	56%	35%	13%	12%	14%	10%
Chemistry	59%	58%	55%	38%	15%	13%	13%	14%
Physics	51%	44%	41%	45%	10%	8%	10%	11%
Geography	79%	75%	77%	70%	41%	35%	35%	37%
History	82%	73%	71%	69%	48%	36%	33%	35%
Modern Studies	76%	69%	69%	68%	45%	34%	31%	36%
Computing	60%	60%	54%	57%	19%	19%	19%	25%
Craft and Design	71%	72%	71%	54%	43%	43%	37%	37%
Home Economics	64%	55%	56%	59%	36%	31%	26%	44%
Graphic Communication		78%	73%	74%		35%	38%	40%
Art and Design	91%	89%	88%	79%	63%	62%	61%	52%
Music	75%	78%	86%	85%	52%	53%	68%	71%

Purpose

To promote aesthetic understanding, visual awareness, knowledge and appreciation.

To encourage students to use a range of media and technology to understand, appreciate and respond to their world in creative and non-visual ways.

To promote creative thinking, innovation and enterprise, and encourage self-reliance.

Recommended Entry

Pupils would normally be expected to have attained:

Standard Grade Art and Design at Grade 1 or 2

Intermediate 2 Art and Design

Course Details

Three Units of 40 hours plus 40 hours flexible time.

Expressive Activity - 40 hours

Investigate and record themes of personal interest.

Develop personal ideas related to the selected themes in a visual manner.

Produce finished visual work which conveys a personal response.

Design Activity - 40 hours

Identify a design brief of personal interest and investigate sources that might contribute to its solution.

Explore a range of possible solutions to the brief.

Present an appropriate solution.

Review the design process and evaluate the solution in relation to the design brief.

Art and Design Studies - 40 hours

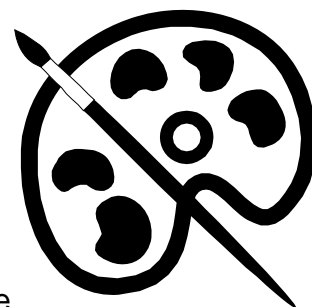
Demonstrate knowledge and understanding of a selected area of the visual arts.

Demonstrate knowledge and understanding of a selected area of design.

As in Standard Grade, pupils will be strongly encouraged to visit Galleries, Museums and Exhibitions enabling them to widen their experience of contemporary Art and Design, as this proves invaluable in all areas of their work.

Progression

This course is an essential part of the continuous process leading to Advanced Higher Art and Design; appropriate HNC or HND course; Degree course at Art School or University and an ever expanding area of careers in Architecture, Design, Expressive Arts, Fine Art and the Media/Film Industries.



Character of Enquiry

The Enquiry should be an investigation of the pupil's own choice. No examination papers will be set; folios of work will be the final form of assessment.

An important characteristic of Art and Design education is the recognition of the close relationships which exist between many aspects of fine art and design studies.

These relationships take common forms in, for example, stimulus for investigation and study, experimentation with media and means of communication.

These relationships, when they arise in an Advanced Higher, should be encouraged when it is clear that they will contribute to the enrichment of the study.

The structure of the course means that the pupils can choose the combination of mainly an Enquiry; Expressive Activity with either a Fine Art Study or Design Activity or an Enquiry; Design Activity with either a Design Study or Expressive Activity.

Recommended Entry

Pupils would normally be expected to have attained:
Higher Art and Design pass

Presentation of Enquiry

The Expressive or Design Activity -	80 hours
with Art and Design Studies -	40 hours
or an Expressive Activity -	80 hours
with a Design Activity -	40 hours
or a Design Activity -	80 hours
with an Expressive Activity -	40 hours

Submissions should consist of a substantial body of work: an outline statement of the project selected and of the intentions for its development; notes, sketchbooks and other studies which clearly illustrate initial research of resource material; evidence of the consideration and development of ideas and the selection of appropriate media; the final outcome or outcomes; reflective comment describing the development of ideas in relation to the outline statements and intentions

As with Higher, pupils will be strongly encouraged to visit Galleries, Museums and Exhibitions to widen their knowledge of contemporary Art and Design, as this proves an essential part of all areas of their work.

Progression

This course is an essential part of the continuous process, invaluable for folio preparation, leading to HNC courses in Further Education, Degree courses at Art School or University and ever expanding career opportunities in Architecture, Design, Expressive Arts, Fine Art and the Media/Film industries.

Purpose

To promote aesthetic understanding, visual awareness, knowledge and appreciation.

To encourage pupils to use a range of media and technology to understand, appreciate and respond to their world in creative visual and non-visual ways.

To promote creative thinking, innovation and enterprise, and encourage self reliance, initiative, problem solving and the development of personal opinions and imagery.

Recommended Entry

Pupils would normally be expected to have attained:

Standard Grade Art and Design at Grade 3 or 4

Intermediate 1 Art and Design

Course Details

Three Units of 40 hours plus 40 hours flexible time.

Expressive Activity - 40 hours

Investigate and record a theme or themes of personal interest.

Develop personal ideas related to the selected themes in a visual manner.

Produce finished visual work which conveys a personal response.

Design Activity - 40 hours

Identify a design brief of personal interest and investigate sources that might contribute to its solution.

Explore a range of possible solutions to the brief.

Present an appropriate solution.

Review the design process and evaluate the solution in relation to the design brief.

Art and Design Studies - 40 hours

Demonstrate knowledge and understanding of a selected area of the visual arts.

Demonstrate knowledge and understanding of a selected area of design.

As in Standard Grade, pupils will be strongly encouraged to visit Galleries, Museums and Exhibitions enabling them to widen their experience of contemporary Art and Design, as this proves invaluable in all areas of their work.

Progression

This course is an essential part of the continuous process leading to Higher Art and Design; an appropriate HNC or HND course in Further Education or possible employment in the expanding area of careers in Art and Design and the Media.

ART AND DESIGN
Digital Photography: An Introduction

INTERMEDIATE 2 - UNIT

Purpose

This unit is designed to introduce the candidate to the theory and practices involved in digital photography for multimedia computing. The intention is to provide an opportunity for candidates to participate in this area of study at a reasonable level for a person with little or no experience of photography and to provide a foundation for further study at Higher level. It is recommended that exercises undertaken in the study of this unit gives adequate opportunity for the candidate to explore the subject and to be creative.

Recommended Entry

Candidates enrolling for this unit do not need prior knowledge of traditional photography, although most will likely have a special interest and have used a camera at some time.

Advanced Higher or Higher Art and Design candidates will find this unit invaluable for resource gathering and folio preparation.

Outcomes

- 1 Describe the principles of digital photographic image formation for multimedia computer applications.
- 2 Compose and store digital photograph images
- 3 Enhance digital images using computer software
- 4 Plan, produce and present a portfolio of digital photographic images to a given brief
- 5 Comply with legislation and practice appropriate to digital photography

Pupils will at all times comply with the procedures and regulations designed for safe practice and use those specified for equipment and work areas.

Credit Value

1 Credit at Intermediate 2.

Purpose

This course provides a broad-based study of a wide range of biological topics built on concepts developed in the Standard Grade course. The contents reflect Biology as an area of investigative science and provides a general basis for further study or employment in areas related to Biology. The course provides opportunities for the pupils to acquire knowledge and understanding, skills in problem solving and practical abilities and positive attitudes.

Recommended Entry Qualifications

Pupils would normally be expected to have attained:

Standard Grade Biology, Chemistry or Physics at Grade 1 or 2 for both knowledge and understanding and problem solving, and **achievement of grades 1 and 2 consistently in end-of-topic tests. SQA now stipulate that “an overall Grade 2 at Standard Grade is no longer a secure basis for progression to Higher in one year in Biology”**. Pupils entering from Intermediate 2 must have achieved Band A at this level, as achievement at Grade B demonstrates insufficient ability to be translated into a Higher pass.

Course Details**Cell Biology**

Cell structure and function

Photosynthesis

Energy release and respiration

Synthesis and release of protein

Cell response in defence

Genetics and Adaptation

Variation

Selection and specification

Animal and plant adaptations

Control and Regulation

Control of growth and development

Maintenance of physiological processes

Population dynamics



The course contains practical work which provides the basis for ONE compulsory written report, successful completion of which is essential for gaining a Higher award. Each unit also contains an end of unit assessment with a pass mark of 65%. A Higher pass will only be awarded if the candidate has achieved a pass in all three units in addition to the external examination.

Progression

This course is an essential part of the continuous process leading to Advanced Higher, appropriate HND and HNC courses and Degree Courses at University.

BIOLOGY

ADVANCED HIGHER

Purpose

The general aim of this course is to provide pupils with the opportunity for deeper study of topics encountered at Standard Grade and Higher.

The course is designed to encourage individual study and personal initiative on the part of the pupil, particularly in practical investigations. It is also amenable to scientific enquiry, whether by observation, survey or experiment.

Recommended Entry

Pupils would be expected to have attained an award in Higher Biology, in band A or B. A background in Higher Chemistry is also invaluable for the study of this course.

Course Details

Pupils will study 3 units of work ie two 40 hour units and one 20 hour unit, as well as a 20 hour investigation.

The 40 hour units are:

Cell and Molecular Biology

This is the study of cell ultrastructure and function in relation to the cytoskeleton. Molecular and chemical interactions are studied with reference to enzyme control of metabolism, sodium-potassium pump associated with membranes and cell signalling as a method of cell communication. Recent great advances in DNA technology are explored with legal, moral and ethical issues being raised.

Environmental Biology

This unit considers the biological processes which result in the flow of energy and circulation of materials in an ecosystem. Inter-specific and intra-specific relationships are studied as well as human influence on the ecosystem.

The 20 hour unit is:

Physiology and Exercise

This unit deals with the beneficial effects of exercise on general health and in the prevention or rehabilitation of individuals with certain conditions eg cardiovascular disease, osteoporosis etc. The physiology of the cardiovascular system is studied as is the pathophysiology of heart disease.

The course contains compulsory practical work which provides the basis for a written report, successful completion of which is essential for gaining the Advanced Higher qualification. The candidate must also achieve a minimum of 65% in 3 end of unit assessments.

Pupils also have to complete an investigation on a chosen subject, the length of the investigation being 20 hours. This investigation is assessed externally.

Progression

This course is an essential part of the continuous process leading to the study of University Degree courses related to Biology.

Purpose

This course provides the study of certain biological topics built on concepts developed at Standard Grade. It reflects Biology as an important investigative science and provides the opportunity to acquire knowledge and understanding and skills in problem solving and practical abilities.

Recommended Entry

Standard Grade Biology with knowledge and understanding and problem solving at Grade 3 or 4

Standard Grade Physics, Chemistry or Science with knowledge and understanding and problem solving at Grades 1-2

Course Details

The course consists of three 40 hour units and 40 hours flexible time.

Living Cells

Cell structure and functions eg osmosis and diffusion.

Enzymes.

Respiration.

Photosynthesis.

Environmental Biology and Genetics

Food chains and webs.

Factors affecting variety in a species.

Animal Physiology

Mammalian nutrition.

Control of the internal environment.

Circulation.

Gas exchange.

Nervous system.

The course contains compulsory practical work which provides the basis for a written report, successful completion of which is essential for gaining an Intermediate 2 award. Each unit also contains an end-of-unit assessment each with a pass mark of 65%. An Intermediate 2 award will only be granted if the candidate achieves a pass in all three units in addition to the external examination.

Progression

These three units link with Higher Biology and the achievement of a **Grade A** pass in this course may lead to the continued study of Biology at Higher level.

BUSINESS EDUCATION ADMINISTRATION

HIGHER

This course offers the opportunity to acquire advanced ICT skills as well as an entry qualification to universities and colleges.

Purpose

Administration offers an opportunity for individuals to develop crucial skills and knowledge which allow them to access, understand and contribute to the complex business and information environment. Whatever the career pathway or progression route, administration will provide a valuable learning experience.

Entry Level

Intermediate 2 Administration
Credit Level English

Course Details

Administrative Services (1 credit) 40 hours

Information Technology for Management (2 credits) 80 hours

plus 40 flexible hours

The course contains much practical work, involving advanced word processing, databases (relational, forms, reports, exporting data), spreadsheets, (managing workbooks, functions, pivot tables), electronic communications, e-diary and presentation software. This is integrated throughout all work. The whole course is designed to increase technological confidence. Pupils will be required to work on their own as well as with other people, thus developing interpersonal skills. The final examination consists of 2 papers each lasting 1 hr 20 minutes - one practical and one theory paper.

Progression

To Higher and Further Education Institutes or as the basis of a vocational career.

Purpose

Administration offers an opportunity for individuals to develop crucial skills and knowledge which allow them to access, understand and contribute to the complex business and information environment. Whatever the career pathway or progression route, administration will provide a valuable learning experience.

Entry Level

Intermediate I Administration

This course **should not** be taken as well as IT for Admin.

Course Details

Administrative Services	40 hours
Information Technology for Administrators	40 hours
Presenting and Communicating Information	40 hours

plus 40 flexible hours

The course contains practical work, involving word processing, databases, spreadsheets, electronic communications, e-diary and presentation software. This is integrated throughout all work. The whole course is designed to increase technological confidence. Pupils will be required to work on their own as well as with other people, thus developing inter-personal skills. The final examination consists of 2 papers – a theory paper lasting 1 hour and a practical paper lasting 1 hour 20 minutes.

Progression

- Candidates can progress to Higher Administration
- Candidates can progress to Further Education courses.
- Candidates are equipped with a level of competence required for using a range of software packages. These can then be used for vocational purposes.

Purpose

This is a practical course which offers an opportunity for individuals to develop and update their ICT skills.

Entry Level

No previous experience is necessary as candidates will be entered for units at an appropriate level depending on prior skills.

Course Details

Information Technology for Administrators **40 hours**

and/or

Presenting and Communicating Information **40 hours**

The course contains practical work, involving word processing, databases, spreadsheets, electronic communications, e-diary and presentation software. This is integrated throughout all work. The whole course is designed to increase technological confidence. Pupils will be required to work on their own as well as with other people, thus developing inter-personal skills.

Progression

- Candidates can progress to complete Intermediate 2 Administration or Higher
- Candidates can progress to Further Education courses.
- Candidates are equipped with a level of competence required for using a range of software packages. These can then be used for vocational purposes.

BUSINESS MANAGEMENT

HIGHER/INTERMEDIATE 2 UNITS

This course offers you the opportunity to acquire skills and knowledge which will allow you to participate in the complex world of business and information. Whether or not you intend to have a career in business, the course will enable you to enhance your individual effectiveness.

Recommended Entry

This is a 3 period course is is offered to **S6 only**. There will only be internal assessments on each of the units.

Business Decision Areas

Unit 1 Marketing and Operations

Unit 2 Human Resource Management and Finance

Purpose

The study of Accounting at Higher develops the ability to identify, calculate, evaluate and communicate financial and management accounting information and to allow informed judgements and decisions to be made. The Course methodology encourages candidates to think logically and to apply accounting principles in a consistent and effective manner, thus developing their problem-solving, communication and decision-making skills.

Financial accounting enables candidates to understand how entrepreneurial and non-profit making organisations are structured, financed, managed and controlled.



The study of management accounting will enable candidates to understand the significance and need for classifying and controlling costs, to develop skills in budgeting and to prepare a range of cost statements for a variety of different production and service concerns.

The increasing use of information technology has had a major impact on the accounting procedures of organisations and the course offers candidates an opportunity to develop their information technology skills and apply them within business contexts.

Recommended Entry

For entry conditions to this “Crash” Higher please see Mrs Andrews. This option is open to **S6** pupils only.

Intermediate 2 Accounting

Standard Grade Accounting - Credit Level

Course Details

Financial Accounting

60 hours

Management Accounting

60 hours

40 hours for consolidation, integration and preparation for external exam

The content is the same as with Intermediate 2 but the depth of knowledge and the interpretation required is greater.

Progression

Course content mirrors that of first year university module(s). These modules will be found, not only in discrete Business Education Courses, but across a whole spectrum of higher and further education courses.

Should you embark on this course and find elements of it too difficult, an Intermediate 2 option will be available. The courses are identical but Intermediate 2 has a reduced content and is obviously less demanding.

ACCOUNTING AND FINANCE

INTERMEDIATE 2

Similar to Higher but at a lower level.

Entry

Standard Grade Accounting and Finance 3 and 4 only.

BUSINESS EDUCATION

CERTIFICATE IN FINANCIAL SERVICES

This course consists of a total of 3 units, one of which is compulsory: Introduction to Financial Services plus a free choice of any two other subjects from a range offered such as Introduction to Marketing, E-commerce, etc.

The course is an internationally recognised qualification (counting for UCAS points as well) offered by the Chartered Institute of Bankers in Scotland. This is a distance learning package and most of the work is done by you on your own or as part of a small group with some teacher back-up but mainly support from an on-line tutor.

Strathaven Academy is the pioneer in South Lanarkshire in this field.

Entry Level

Since this course is expensive and requires special funding, entry to the course is by selection. The following are some of the criteria we would be looking for in our students:

- Consideration being given to a career in Business or the Financial Sector.
- Advanced Higher level of education
- Ability to work on own
- Ability to work well as part of a group
- A firm commitment to finishing the course.

It may be possible to offer this opportunity in Session 2008/2009 if suitable candidates are identified.

Purpose

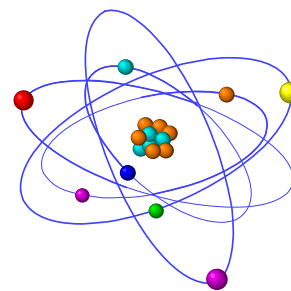
The course is designed to provide opportunities in appropriate contexts for the pupils to acquire:

Knowledge and understanding of chemical facts, theories and symbols.

The ability **to solve chemical problems** by selecting and presenting information, carrying out calculations, planning, designing and evaluating experimental procedures and by concluding, explaining, generalising and predicting.

The ability **to carry out chemical techniques** and investigations by describing experimental procedures, taking and recording measurements and observations and by analysing data and drawing valid conclusions.

Positive open minded attitudes and awareness that they can take decisions which affect the well being of themselves and others and the quality of the environment.



The learning experiences in Higher Chemistry make an important contribution to the pupil's general education by developing core skills and by emphasising the relevance of chemistry to everyday living and the world of work.

Recommended Entry

While entry is at the discretion of the centre, pupils would normally be expected to have attained one of the following or its equivalent:

Standard Grade Chemistry at Grades 1 or secure 2 (based on Knowledge and Understanding and Problem Solving Components)
Intermediate 2 Chemistry Course.

Course Details

The course has three compulsory units:

Energy Matters (H) - 40 hours

The World of Carbon (H) - 40 hours

Chemical Reactions (H) - 40 hours

In common with all courses, this course includes an additional 40 hours over and above the 120 hours for component units - for induction, extending the range of teaching and learning approaches, support, consolidation and preparation for the external assessment. This 40 hours is an important element of the course.

One mandatory experiment (or PPA) requires to be written up formally and submitted for assessment purposes. This must be from Unit One.

Progression

The course is essential for progression to Advanced Higher Chemistry and is particularly suitable for pupils who wish to progress to college or university in a wide variety of subjects from HNC or HND to first Degree level and beyond. The course has proved beneficial to pupils studying other science subjects and also provides a sound basis for direct entry into chemistry-related employment.

CHEMISTRY

ADVANCED HIGHER

Purpose

The course is designed to allow pupils to develop:

Knowledge and understanding of chemical facts, theories and symbols.

An ability to solve problems by selecting information, carrying out calculations, planning, designing and evaluating, drawing conclusions and giving explanations.

An ability to carry out chemical techniques and investigations, including describing experimental procedures, collecting and analysing data.

An awareness of the links between chemistry and the world of work.

Recommended Entry

While entry is at the discretion of the centre, pupils would normally be expected to have attained the following award or its equivalent:

Higher Chemistry

Course Details

The course has four mandatory units:

Electronic Structure and the Periodic Table (AH) - 20 hours

Principles of Chemical Reactions (AH) - 40 hours

Organic Chemistry (AH) - 40 hours

Chemical Investigation (AH) - 20 hours

PPAs are mandatory experiments - however only one must be reported formally (taken from Unit One).

In common with all other courses, this course includes a further 40 hours over and above the 120 hours for component units.

Progression

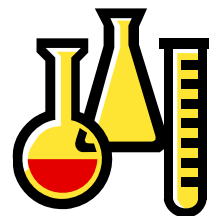
The course is particularly suitable for pupils who wish to progress to degree courses either in chemistry or in subjects in which chemistry is a major component such as medicine, chemical engineering and the environmental and health sciences. The course also provides a sound basis for direct entry into chemistry-related employment. A pass at Advanced Higher allows direct entry to 2nd year in some University Courses.

Purpose

The course is primarily designed to provide a 'bridge' between achievement in knowledge and understanding and problem solving at General level in Standard Grade and further study at Higher. As such the Intermediate 2 course could be the first year of a two year Higher programme.

The course is also designed to allow students who have no previous experience of Chemistry to progress to Higher in the following year. As such it is particularly suitable as an introductory course for adult returners and for S5 and S6 students who wish to study Chemistry for the first time.

Study of this course provides a coherent coverage of key chemistry concepts.

**Recommended Entry**

Students would normally have obtained one of the following awards or its equivalent:

- Standard Grade Chemistry at Grades 3 and 4 (or Grade 2 where one of the component scores is 3 or below)
- Standard Grade Biology, Physics or Science at Grades 1 to 3
- Intermediate 2 Biology or Physics together with Standard Grade Mathematics at Grades 3 and 4 or Intermediate 1 Mathematics

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

Unit – Title, Length and Brief Description**Building Blocks (Int 2) 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 (Int 2) 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 (Int 2) 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. The content of these units will be largely based on the content of Standard Grade Chemistry at Credit level but will also include appropriate content from Higher Chemistry.

Appropriate assessment material will be provided through the National Assessment Bank.

Progression

To Higher Chemistry or to another Science subject at Intermediate 2.

Purpose

The Higher Computing course is not only about learning to use current hardware and software. It is designed to provide candidates with both the necessary knowledge and understanding and the practical problem solving skills to enable them to become the ICT tool designers of the future.

Recommended Entry

Pupils must have attained one of the following qualifications:-

Standard Grade Computing at Grade 1 or 2 including a Credit Level pass in Programming at Standard Grade

An "A" pass in the Intermediate 2 course in Computing

Course Details**(a) Computer Systems - 40 hours**

Each of the following areas is studied in depth

- data representation
- computer structure
- peripherals
- Networking
- Computer Software

(b) Software Development - 40 hours

Each of the following areas is studied in depth

- the software development process.
- software development languages and environments.
- high level programming language constructs
- Standard VB6 Algorithms

(c) Networking - 40 hours including a detailed study of the Internet.

Each of the following areas is studied in depth

- Network protocols
- Network applications
- Network security
- Data transmission mediums

Progression

Those students who are able to achieve an "A" pass in the Higher Computing course, will be allowed to attempt the Advanced Higher in sixth year

Purpose

The purpose of the Advanced Higher Computing course is to build on the knowledge and understanding and practical skills developed by pupils in the higher course, and provide a useful bridge towards further study of computing in Higher Education. This bridge is achieved by a course, which consolidates and extends learning, provides opportunities for independent investigative work, while encouraging teamwork and requires candidates to undertake and report on a significant software development project.

Recommended Entry

Students would normally be expected to have attained an “A” pass in the Higher Computing examination.

Course Details

The Course is made up of three units:

Software Development, Developing a Software Solution, and Computer Networking.

Software Development - 40 hours

This Unit develops the candidate’s knowledge and skills in developing software through the use of a high level programming language. It builds on the learning laid down in the corresponding Unit at Higher level

Developing a Software Solution - 40 hours

In this unit, the student will draw on the knowledge and understanding and practical skills developed through previous study, extend these through investigation, and then analyse, design and implement a solution to a significant computing problem. This solution must then be tested and evaluated, and a project report produced.

Computer Networking - 40 hours

This unit will significantly expand upon all of the knowledge, understanding and practical skills acquired in the Higher Computing course.

Progression

This course is specifically aimed at helping those pupils who wish to progress to further education to satisfactorily complete the first year of their university course.

Purpose

To teach pupils the basic principles and operations of computer systems. To introduce pupils to the Internet and the World Wide Web.

Recommended Entry

Students are required to have attained one of the following qualifications:-

A Grade 3 or 4 in Standard Grade Computing Studies including a General Level pass in Programming at Standard Grade

Course Details**(a) Computer Systems**

Demonstrate knowledge & understanding of computer organisation.

Demonstrate knowledge & understanding of computer software.

Demonstrate knowledge & understanding of input, storage, and output of data.

Use a computer system to process data.

(b) Software Development

Describe aspects of the software development process.

Explain features of a software development environment.

Implement features and use facilities of a software development environment.

Produce a solution to a problem using a software development environment.

(c) Internet Project.

Use the computer to help to plan the creation of your web page.

Use the Internet to implement the solution.

Evaluate the effectiveness of the solution in the form of a project report.

Progression

If pupils achieve an "A" pass in this course, then entry to Higher Computing in sixth year is possible.

Purpose

To enable pupils to develop skills of communicating and understanding.

To develop skills which allow pupils to interpret increasingly complex linguistic and literary forms.

To produce increasingly sophisticated and subtle oral and written communications in a variety of styles or formats.

To reflect on ideas, relationships, feelings, points of view and motivations and use language effectively to convey these on a personal level.

To develop a more mature and sophisticated awareness of the potential of literature as a means of stimulating intellectual growth.

Recommended Entry

Pupils would normally be expected to have attained:

Standard Grade English at Grade 1 or 2 in Reading and in Writing
Intermediate 2 English at Grade A

Course Details

Three units of 40 hours, plus 40 hours flexible time.

Language Study - 40 hours

Understand, analyse and evaluate non-fiction print text which conveys complex information.

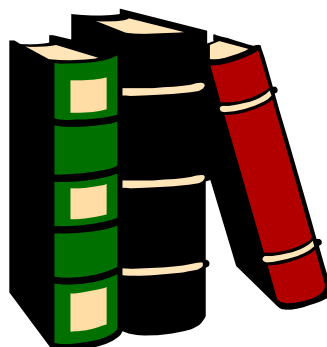
Compose a piece of writing in a particular genre.

Literary Study - 40 hours

Respond critically to imaginative texts, one of which must be a Scottish text.

Personal Study – 40 hours

Study independently and respond critically to his or her own choice of text(s).

**Progression**

This course is an essential part of the continuous process leading to Advanced Higher English and the study of Language and Literature in Further Education and Higher Education courses.

Purpose

To develop a mature and sophisticated awareness of the potential of literature as a means of stimulating intellectual growth.

To study a wide selection of specified literary texts.

To further develop and refine skills in Creative Writing and Textual Analysis.

To encourage independent thought and reflection.

To acquire the ability to research and write a Dissertation.

Recommended Entry

Pupils are required to have at least a Grade C pass in Higher English.

Course Details**Dissertation**

Produce a Dissertation of 3,500-4,500 words on a subject related to 2/3 texts of the pupil's own choice.

Literature

Study and respond to 2/3 works of at least 2 different writers.

Creative Writing

Produce a folio of Creative Writing in at least 2 genres.

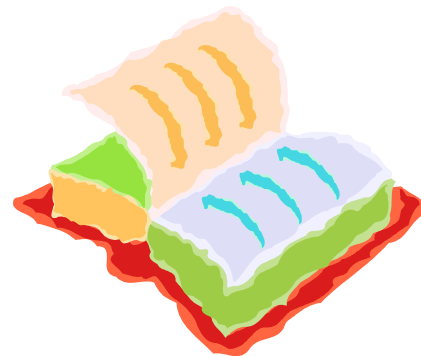
Textual Analysis

Analyse and respond critically to a wide variety of prose, poetry and drama.

If numbers permit, it may be possible to join the Advanced Higher class on a Unit-only basis.

Progression

This course equips pupils with the skills necessary to pursue the subject in Higher Education courses.



Purpose

To enable pupils to develop skills of communicating and understanding.

To develop skills which allow pupils to interpret increasingly complex linguistic and literary forms.

To produce increasingly sophisticated and subtle oral and written communications in a variety of styles or formats.

To reflect on ideas, relationships, feelings, points of view and motivations and use language effectively to convey these on a personal level.

To develop a more mature and sophisticated awareness of the potential of literature as a means of stimulating intellectual growth.

Recommended Entry

Pupils would normally be expected to have attained:

Standard Grade English at Grade 2 or 3 in Reading and in Writing
Intermediate 1 English at Grade A

Course Details

Three units of 40 hours, plus 40 hours flexible time.

Language Study - 40 hours

Understand, analyse and evaluate non-fiction print text which conveys complex information.

Compose a piece of writing in a particular genre.

Literary Study - 40 hours

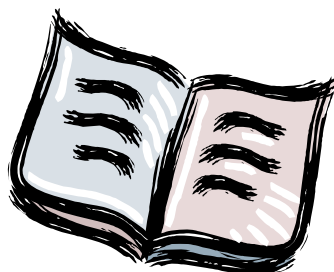
Respond critically to imaginative texts, one of which must be a Scottish text.

Personal Study – 40 hours

Study independently and respond critically to his or her own choice of text(s).

Progression

This course is an essential part of the continuous process leading to study at Higher level. Successful completion of Intermediate 2 English means that pupils will possess an externally assessed award at a level specified for a number of Further Education courses.



Purpose

To enable pupils to develop skills of communicating and understanding.

To develop skills which allow students to interpret increasingly complex linguistic and literary forms.

To produce increasingly sophisticated and subtle oral and written communications in a variety of styles or formats.

To reflect on ideas, relationships, feelings, points of view and motivations and use language effectively to convey these on a personal level.

To develop a more mature and sophisticated awareness of the potential of literature as a means of stimulating intellectual growth.

Recommended Entry

Pupils would normally be expected to have attained:

Standard Grade English at Grade 3, 4 or 5 in Reading and in Writing

Course Details

Three units of 40 hours, plus 40 hours flexible time.

Language Study - 40 hours

Understand, analyse and evaluate non-fiction print text which conveys basis information.

Compose a piece of writing in a particular genre.

Literature Study - 40 hours

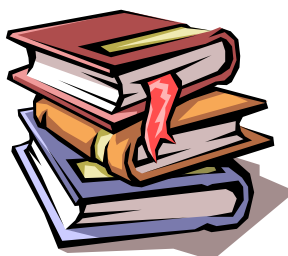
Respond to imaginative texts, one of which must be a Scottish text.

Personal Study – 40 hours

Study independently and respond critically to his or her own choice of text(s).

Progression

This course is an essential part of the continuous process leading to Intermediate 2 English. Successful completion of Intermediate 1 English means that pupils will possess an externally assessed award at a level specified for a number of Further Education courses.



Purpose

To develop a detailed understanding of aspects of the contemporary world, an understanding of the ways in which people and the environment interact and a life long interest in, understanding of and concern for the environment.

General skills of research, analysis, synthesis, evaluation and presentation, including IT.

Techniques to collect, extract, analyse, interpret and explain geographical phenomena.

Expertise in the use of a range of maps, diagrams, graphs, etc.



Field Excursion (2 days) to the Yorkshire Dales or alternative location.

Recommended Entry

A grade 1 or 2 from Standard Grade is essential. Pupils who do not have Standard Grade Geography should have Standard Grade passes at Grade 1 or 2 or in another social subject.

Course Details

The course consists of 3 units:

Unit 1 – Physical Interactions - 40 hours**PHYSICAL GEOGRAPHY****Atmosphere**

How the world's climate works, global warming (why the climate is changing).

Hydrosphere

The Hydrological Cycle/River Landscapes and their processes.

Lithosphere (includes a residential field excursion to the Yorkshire Dales).

Formation of selected British landscapes (glaciation, limestone, coasts).

Biosphere

Soils and their formation, how vegetation colonises sand dunes/derelict land.

Unit 2 – Human Interactions – 40 hours**HUMAN GEOGRAPHY****Population Geography**

Too many people or too little development - a 21st century issue; the ageing population in Scotland. Case Studies – Scotland, China, Germany.

Rural Geography

Changing agricultural landscapes in the developed and developing world. Prairies, Amazon, SE Asia.

Industrial Geography

Case studies in changing industrial landscapes eg, West Central Scotland.

Urban Geography

Cities - their growth and land use zones; city study - Glasgow.

In addition, every 2 to 3 years we are now offering a foreign Geography excursion to Iceland to study Glaciers, Volcanoes and magnificent river and coastal landscapes

Unit 3 – Environmental Interactions - 40 hours

This unit consists of more in depth studies of the following topics:

Development and Health

Developing world case studies - health and disease, malaria, differences in and reasons for variations in development - Brazil.

River Basin Management

The Colorado River - Western USA, 3 Gorges Dam – China.

Progression

In school, pupils can progress to the more in-depth study of Advanced Higher. However, the structure of Higher Geography is designed to dovetail with Geography studies at University level which provide the knowledge and skills for a wide range of potential careers.

Purpose

To enable pupils, by using the concepts and techniques of geographical analysis, to develop a detailed understanding of aspects of the contemporary world including:

An understanding of the ways in which people and the environment interact on local, national and international scales.

To develop a life long interest in, and understanding of, the environment.

To acquire advanced research and analytical skills and advanced geographical methods and techniques.

**Recommended Entry**

It would normally be expected that a pupil would have a pass at Higher Geography before entry to Advanced Higher. While a pass in another social subject Higher would theoretically allow entry to Advanced Higher Geography it is unlikely that a candidate would be able to cope with the demands of the course without a geography background.

Course Details

While elements of the course have to be taught, the main focus of Advanced Higher Geography is on guided independent learning providing the candidate with many research and analytical skills. These skills are particularly useful for those going on to Higher Education to study social sciences and, where physical geography is the main emphasis, earth and natural sciences.

There are 3 units which can be completed independently or as part of the full Advanced Higher course.

Unit 1: Geographical Methods and Techniques

Pupils are assessed on 3 skill areas; fieldwork methods and techniques, statistical awareness and interpretation of maps. The external exam consists of assessment of these skills.

Unit 2: The Geographical Study

Pupils are required to produce an in depth study of a research topic (usually fieldwork) set in the local area, of not more than 25 pages..

Unit 3: Geographical Issues

Pupils are required to produce a 12 page study on any geographical issues of their choice which fall within the main ideas of any of the Higher Geography Applications unit.

Progression

Although the specific knowledge and skills are designed to lead directly into the study of geography at University the more general skills of research, analysis and presentation acquired are an essential component of Higher Education.

Purpose

To develop knowledge and understanding of the past which will prepare pupils for active participation in a modern democracy.

To develop the skills of critical thinking by requiring pupils to evaluate the major events of the 20th century in Scotland, Britain, Europe and the World.

To develop communication skills such as analysis of sources, essay writing and the ability to draw reasoned conclusions from evidence.

Recommended Entry

Pupils would normally be expected to have attained:

Standard Grade History at Grade 1 or 2
A pass at Intermediate 2 History

All pupils will start the Higher Course. Candidates who do not reach the standard required for Higher may be presented at Intermediate 2.

Course Details

Three units of 40 hours plus 40 hours flexible time.

Unit 1

Britain from 1850-1979 explores the themes of:
The Growth of Democracy from 1867-1928 and
Government and the People from 1900-1945.
Scottish Nationalism and Devolution from 1945-1979.

**Unit 2**

The Growth of Nationalism in Germany from 1815-1945 explores the themes of:
The Unification of
German and the Kaiser Reich to 1918.
The rise of the Nazis and the Third Reich to 1945.

Unit 3

Appeasement and the Road to War to 1939 explores:
The issues and events which led to the outbreak of war in
1939.

**The Extended Essay**

Pupils choose an issue from one of the three units above to plan, prepare, research and produce an essay which involves them in historical research. This is externally assessed

Progression

This course is an essential part of the process which leads to entry to Higher Education in an appropriate Degree course in Arts and Social Sciences at College or University. A pass in Higher History is a widely accepted qualification for a wide range of careers.

HISTORY

ADVANCED HIGHER

Purpose/Recommended Entry

This is designed for those who have achieved a pass at Higher Grade in S5. There is a wide range of topics available and the major part of the course is taken up by individual research.

Course Details

There are 3 parts to the course, all are externally assessed:-

Paper I

Essay writing on a range of issues from the topic

Paper II

Source evaluation and commentary on issues within the topic.

The Dissertation

From the beginning of the course in August until Easter, pupils research, plan and present a dissertation of 4000 words on an issue arising from the topic.

Progression

This course continues the progress of developing the research skills begun at Higher to give pupils experience of historical research.

HISTORY

INTERMEDIATE 1/2

Purpose/Recommended Entry

This is designed for those who have achieved Grade 3 at Standard Grade.

Course Details

There are 3 units of study at Intermediate 2 History.

Unit 1

From the Cradle to the Grave. Social welfare in Britain 1890s-1951

Unit 2

The Accursed Trade. The British Slave Trade and its Abolition 1770-1807

Unit 3

Free at Last. Race Relations in the USA 1918-1968

The extended Response

Pupils choose from one of the units above to plan, prepare and produce an extended response which is externally assessed.

Progression

Pupils who gain an 'A' pass at this level in S5 can gain entry to Higher History in S6.

HOME ECONOMICS HEALTH AND FOOD TECHNOLOGY

HIGHER

Purpose

This course will provide pupils with an in depth study of Health and Food Technology. The course aims to develop pupils' personal effectiveness in using and measuring resources. They will be required to integrate specialist knowledge and skills through practical application.

Recommended Entry

Pupils would be expected to have attained:

Standard Grade at Credit Level in Home Economics
Intermediate 2 Health and Food Technology, or be
"New Starts" or adult returners

Course Details

The course comprises 2 units totalling 120 hours. An additional 40 hours will be allocated for induction, remediation, assessment and preparation for external exams.

Resource Management - 80 hours

Plan, organise and complete a practical activity.

Develop ideas and solutions to a given brief.

Review and evaluate a problem solving activity.

Apply specialist knowledge and understanding to address a problem or situation.

Consumer Studies - 40 hours

Use a range of investigative techniques to obtain information related to consumer issues.

Apply decision making skills as a result of interpreting information.

Apply specialist knowledge and understanding to address a problem or situation.

Pupils will be expected to complete a Technological Project throughout the year.

Progression

Advanced Higher Home Economics.

Employment in Hotel Catering and Hospitality Operations.

Degree courses in Hotel Catering and Hospitality Operation and Consumer Studies and Product Development.

Purpose

This course provides opportunities for pupils to develop specialist skills and acquire and apply knowledge. A practical approach will make the course appealing to those who may wish to progress to the vocational area of care, hospitality and the food industry.

Recommended Entry

Pupils would be expected to have attained:

Standard Grade at General Level,
Intermediate 1 - Health and Food Technology, or be
“New Starts” or adult returners

Course Details

The course comprises 3 units totalling 120 hours, plus an extra 40 hours for induction, remediation, assessments and external exam preparation.

Management of Practical Activities - 40 hours

Plan, organise and complete a practical activity.

Evaluate a planned practical activity.

Use knowledge and understanding of an area of study to address a problem or situation.

Pupils will be expected to complete a Technological Project throughout the year.

Product Development - 40 hours

Develop ideas for a solution to meet the needs of a product brief.

Evaluate the solution of product development.

Use knowledge and understanding of an area of study to address a problem or situation.

Consumer Studies - 40 hours

Use skills and techniques to make a comparative study of a consumer product.

Draw a conclusion from specified source information for a specific task.

Use knowledge and understanding of an area of study to address a problem or situation.

Progression

Higher Home Economics Health and Food Technology.

Employment in Hotel, Catering and Hospitality Operations.

Further Education in Hotel Catering and Hospitality Operations.



CREATIVE CAKE PRODUCTION

INTERMEDIATE 2 UNITS

Purpose

Units offered will provide opportunities to develop creative, aesthetic and specialist craft skills.

Recommended Entry

Any pupil who would like to develop practical skills in both vocational and non-vocational areas.

Course Details

2 Units will be offered:

Unit 1	Cake Production
Unit 2	Cake Decoration

Progression

Competency in basic cookery skills.

Employment in Hotel Catering and Hospitality Operations.

Further education in Hotel Catering and Hospitality Operations.

Purpose

Higher Mathematics aims to build upon and extend pupils' mathematical skills, knowledge and understanding in a way that recognises problem solving as an essential skill and enables them to integrate their knowledge of different aspects of the subject. The course aims to build a competence and a confidence in applying mathematical techniques, manipulating symbolic expressions and communicating with mathematical correctness in the solution of problems. Pupils who learn formulae thoroughly and routinely practise the skills which they are taught by rigorous completion of homework are likely to be most successful. The course has obvious relevance for pupils with interests in fields such as commerce, engineering and science where the mathematics learned will be put to direct use. All pupils, whatever their career aspirations, should acquire an enhanced awareness of the importance of mathematics to technology and to society in general.

Recommended Entry

The SQA advises that Higher Mathematics should be attempted only by those who "have attained a Standard Grade Credit award, or Intermediate 2 Mathematics including Mathematics 3 (Intermediate 2)". While we wish all our pupils well, realistically, those who have not met these criteria are unlikely to be successful with Higher Maths.

Course Details

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

Unit 1 - 40 hours

This unit covers the properties of the straight line, functions and graphs with related solution of equations, basic differentiation and recurrence relations.

Unit 2 - 40 hours

The factor/remainder theorem, quadratic theory, basic integration, trigonometric formulae and the equation of the circle are considered in this unit.

Unit 3 - 40 hours

In this unit the topics covered are vectors in three dimensions, further differentiation and integration, the logarithmic and exponential functions and further relationships.

As part of the Higher Maths course pupils will cover the ways in which the above topics are interlinked.

The pace of this course is considerably faster than that of Maths courses which candidates have tackled previously so it is important to keep up-to-date with the work being covered at all times.

Progression

Those who pass Higher Maths in fifth year and return for a sixth year may progress to Advanced Higher Mathematics. Beyond school, many employers look for Higher Maths as a respected academic qualification. It is also essential for those wishing to progress to many HND and degree courses in economics, engineering and the sciences.

Purpose

Advanced Higher Mathematics aims to build upon and extend pupils' mathematical skills, knowledge and understanding in a way that recognises problem solving as an essential skill and enables them to integrate their knowledge of different aspects of the subject. The course aims to build a competence and a confidence in applying mathematical techniques, manipulating symbolic expressions and communication with mathematical correctness in the solution of problems. The course has obvious relevance for pupils with interests in fields such as commerce, engineering and science where the mathematics learned will be put to direct use.

Recommended Entry

The SQA advises that Advanced Higher Mathematics should be attempted only by those who "have attained a Higher Mathematics including Mathematics 3 (H)". While we wish all our pupils well, realistically, those who have not comfortably met this criterion are unlikely to be successful with Advanced Higher Maths.

Course Details

The course comprises 3 units of 40 hours plus 40 hours flexible time.

Unit 1 – 40 hours

This unit covers the algebraic skills, differentiation of further functions, products, quotients and composite functions, integration using standard results and substitution, the properties of functions and matrix methods.

Unit 2 – 40 hours

In this unit further differentiation and integration is undertaken and complex numbers, sequences and series, and number theory are studied.

Unit 3 - 40 hours

In this unit the topics covered are vectors in three dimensions, matrix algebra, further aspects of sequences and series, ordinary differential equations, further number theory and direct methods of proof.

The pace of this course is considerably faster than that of Maths courses which candidates have tackled previously so it is important to keep up to date with the work being covered at all times.

Progression

We hope that you will be successful with Advanced Higher Mathematics. If you complete the course successfully you will be well equipped to tackle Mathematics in tertiary education either as a subject in its own right or as an ancillary subject in HND or degree courses in Economics, Engineering and the Sciences.

Purpose

Intermediate 2 Mathematics aims to build upon and extend pupils' mathematical skills, knowledge and understanding in a way that recognises problem solving as an essential skill and enables them to integrate their knowledge of different aspects of the subject.

Recommended Entry

The SQA advises that Intermediate 2 Mathematics should be attempted only by those who "have attained a Standard Grade Mathematics General award, or an Intermediate 1 Mathematics course including Mathematics 3 (Int 1)". While we wish all our pupils well, realistically those who have not met these criteria are unlikely to be successful with Mathematics at Intermediate 2 level.

Course Details

The course comprises three units of 40 hours plus 40 hours flexible time. In January candidates will be given the opportunity to choose either Unit 3 or Applications of Mathematics. **While Unit 3 is described as an optional unit it MUST be taken by those wishing to progress to Higher Mathematics in sixth year.**

Unit 1 - 40 hours

This unit covers calculations involving percentages, formulae for volumes of solids, linear relationships, algebraic operations and properties of the circle.

Compulsory Unit

Unit 2 - 40 hours

Trigonometry, simultaneous linear equations, graphs, charts and tables and the use of simple statistics are covered in this unit.

Compulsory Unit

Unit 3 - 40 hours

In this unit the topics covered are algebraic operations, quadratic functions and further trigonometry.

Optional Unit

Applications of Mathematics - 40 hours

In this unit pupils will cover straightforward calculations in a social context, logic diagrams, formulae and will complete a statistical assignment.

Optional Unit

Progression

We hope that you will be successful with Intermediate 2 Maths. If you pass the Intermediate 2 course based on Units 1, 2 and 3 in fifth year and return for sixth year you may progress to Higher Mathematics. However to have a realistic prospect of success an A or good B pass is recommended.

Purpose

Intermediate 1 Mathematics aims to build upon and extend pupils' mathematical skills, knowledge and understanding in a way that recognises problem solving as an essential skill and enables them to integrate their knowledge of different aspects of the subject.

Recommended Entry

The SQA advises that Intermediate 1 Mathematics should normally be attempted by those who "have attained a Standard Grade Mathematics Foundation award, or the unit Using Mathematics 3 (Acc 3), or equivalent".

Course Details

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

Unit 1 - 40 hours

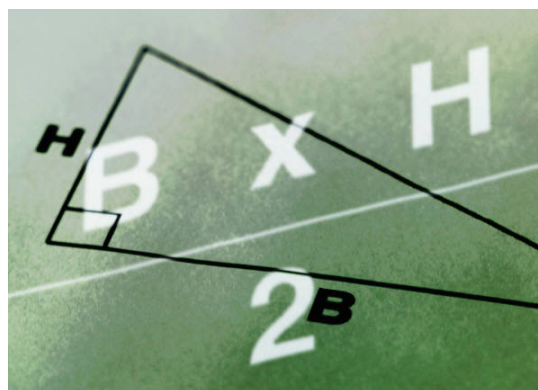
This unit covers basic calculations, basic geometric properties, expressions and formulae and calculations in everyday contexts.

Unit 2 - 40 hours

Integers, speed, distance, time, the Theorem of Pythagoras, graphs, charts and tables and the use of simple statistics are covered in this unit.

Unit 3 - 40 hours

In this unit the topics covered are simple algebraic operations, graphical relationships, trigonometry in a right-angled triangle and scientific notation.



Progression

We hope that you will be successful with Intermediate 1 Maths. If you pass the Intermediate 1 course based on Units 1, 2, and 3 in fifth year and return for a sixth year you may progress to Intermediate 2 Mathematics. However to have a realistic prospect of success an A or good B pass is recommended.

MODERN LANGUAGES FRENCH AND GERMAN

HIGHER

Purpose

The main aim of the course is for pupils to develop communicative competence to a level of some sophistication within defined, relevant and useful contexts. Other important aims are to provide a worthwhile and enjoyable experience for pupils and to provide them with an increasing bank of knowledge about the language, the foreign country, its customs, and ways of life.

A course award in a foreign language is an indication that the student has reached a stage in the language which begins to allow him/her to use the language independently in confident and flexible ways.



Recommended Entry

Pupils would normally be expected to have attained:

Intermediate 2 Modern Languages at A.
Standard Grade award at Grade 1 or 2, **in each** of four elements.

Course Details

The course consists of two units.

Language - 80 hours

This unit aims to develop all four language skills - Speaking, Reading, Listening and Writing for use in a range of purposes.

Contexts for this language work are defined in three broad themes - Lifestyles, Education and Work and the Wider World - which are sub-divided into related topics.

Language competence at Higher will be developed by extending the range and complexity of the language encountered by the pupils and by encouraging an increase in range, fluency and accuracy in the language they produce.

Extended Reading and Viewing (40 hours) – French

In this unit pupils have the opportunity to watch a film in French which they will then discuss. In addition they will read some short poems relating to the same theme. Thereafter pupils are asked to write a short personal response in French.

Extended Reading and Viewing (40 hours) - German

Pupils will read a novel in German. Thereafter they are asked to write a short personal response in German.

In common with all courses, this course includes 40 additional hours which will be used for induction, support and preparation for external assessment.



Progression

This course will allow pupils to pursue foreign language study in a variety of ways, including Advanced Higher, HNC or HND course or as part of a degree course with the possibility of spending part of the academic year in the foreign country. A Modern Language can be studied with a whole range of subjects including Law, Architecture, Accounting, Sciences, Business and Travel and Tourism. Career opportunities are many and varied.

FRENCH AND GERMAN

INTERMEDIATE 2

Purpose

The key aim of the course is to promote the progressive development of communicative competence in a modern foreign language.



The course aims to continue the progressive development of pupils' knowledge of language and the competence in the four skills of Speaking, Reading, Writing and Listening.

Other important aims are to provide a worthwhile and enjoyable educational experience and to broaden horizons through learning about the foreign country and its customs and ways.

Recommended Entry

Pupils would normally be expected to have attained:

Standard grade award at Grade 3 or 4 **in each** of four elements.

Course Details

The course consists of two units.

Language - 80 hours

This unit aims to develop all four language skills - Speaking, Reading, Listening and Writing for use in a range of purposes.

Contexts for this language work are defined in three broad themes - Lifestyles, Education and Work and the Wider World - which are sub-divided into related topics. These topics will provide a context for work aimed at developing the pupils' knowledge about language.

Personal Communication- 40 hours

This unit extends the development of language competence in order to establish personal and social contact with speakers of the target language. The emphasis in this unit will be on reading and writing skills.

In common with all courses, this course includes 40 additional hours which will be used for induction, support and preparation for external assessment.

Progression

This course will allow pupils to pursue foreign language study in a variety of ways, including Higher, HNC or HND. A Modern Language can be studied with a whole range of subjects including Law, Architecture, Accounting, Sciences, Business and Travel and Tourism. Career opportunities are many and varied.

Purpose

The main aim of the course is for pupils to develop further their communicative competence.

In addition the course will provide a more in-depth knowledge about the language, the country and its culture. Pupils should achieve a level of linguistic competence which will allow them to use the language more confidently and with greater flexibility.

Recommended Entry

A or B pass at Higher French.

**Course Details**

There are two units to the course. Pupils will study French Language and some French literature.

These units, which will be studied at the same time, are Language and Extended Reading.

The Language unit is divided into three themes.

Theme 1 – Personal, Social and Cultural issues

Theme 1a is the study of language to read, listen, speak and write about patterns of family life; marriage, the generation gap. gender issues, changing work patterns and lifestyles.

Theme 1b is the study of language to read, listen, speak and write about media and the arts; the press, TV information technology, aspects of film, art, literature, theatre and music.

Theme 2 - Topical and Cultural issues

Theme 2a is the study of language to read, listen, speak and write about European issues: the European Union and its institutions.

Theme 2b is the study of language relating to important issues in France. The way people live; immigration; education; unemployment.

Theme 3 – Environmental issues

Theme 3 is the study of language relating to pollution and conservation; energy sources; urban expansion; transport; implications for the countryside; endangered species.

In the Extended Reading and Viewing unit two French books will be studied. Questions will be answered in French on what has been read and these will be discussed in class. There may also be the opportunity to watch a video of the book.

Progression

This course continues the development of linguistic skills providing a foundation for further study at Higher and Further Education level with the possibility of spending part of an academic year abroad. Career opportunities are many and varied.

Purpose

This course is designed to help beginners build on their foreign language skills in reading, speaking, listening and writing. Pupils will also learn about Spain, its customs and the way of life of the Spanish people. Britain has many business and trade links with Spain and every year many British people enjoy holidays in Spain. This course will be useful both for various career paths and for personal use.

Recommended Entry**Intermediate 1**

Pupils would be expected to have attained a Standard Grade award in another language at Grade 3 or 4 in **each** of four elements.

Intermediate 2

Pupils would be expected to have attained a Standard Grade award in another language at Grade 1 or 2 in **each** of four elements.

Course Details**Intermediate 1**

The course consists of three units

Personal and Social Language

This unit focuses on language relating to pupils' personal life and circumstances.

Transactional Language

This unit deals with the wider world and includes topics such as travel, accommodation, shopping and eating out.

Language in Work

This unit deals with language needed in work-related circumstances, either in this country or abroad.

Progression

Successful completion of Intermediate 1 will allow pupils to pursue further study at Intermediate 2. Career opportunities are many and varied.

Intermediate 2

Course details are the same as French and German but pupils will be following an accelerated course.

Purpose

To build on the skills developed at Standard Grade ie, Knowledge and Understanding and Evaluating and to develop the core skills of critical thinking and decision-making. The emphasis, however, is on Knowledge and Understanding.

Recommended Entry

Pupils would normally be expected to have attained:
Credit pass in Knowledge and Understanding – preferably Grade 1.

Course Details

The course is divided into three units of 40 hours plus 40 hours for induction, consolidation, support and preparation for external assessment.

**Political Issues in the UK - 40 hours**

Electoral systems and voting behaviour. Devolved Government in Scotland.

Social Issues in the UK - 40 hours

Health and Wealth in the UK

International Issues - 40 hours

USA

Politics of Development

Pupils will use a wide range of sources to develop their Knowledge and Understanding - textbooks, videos, CD ROMs, the Internet, newspapers, magazines, etc.

Progression

A pass in Higher Modern Studies is excellent preparation for further study in University and College courses such as Social Studies, Law, Health Studies, International Relations, Media Studies and Business Studies.

Purpose

This course in music sets out to provide pupils with opportunities to develop interests which contribute to personal development, enhance quality of life and provide skills and knowledge required for further study and enjoyment of music. It is therefore designed to serve the needs of pupils who:

Wish to study the subject as part of a general education.

Wish to pursue an interest in music.

Intend to follow a career in music.

Recommended Entry

Pupils would normally be expected to have attained:
Standard Grade Music Grade 1 or 2

Course Details

To obtain a Higher Grade, pupils have to complete the three 40 hour components of the course, Performing, Inventing, Listening.

Performing - 40 hours

Solo and/or Group. Minimum Standard Grade 4.

Inventing - 40 hours

Composition/Compositions 3-10 minutes.

Listening - 40 hours

Study of music from different periods or styles.

Optional Unit

At present the option is normally Performing on a 2nd instrument. Minimum Standard - Associated Board Grade 5. However there may be opportunities for a small number of pupils to opt for Sound Engineering and Production.

Progression

This course is an essential part of the continuous process leading to Advanced Higher, appropriate HNC or HND courses, Degree courses at RSAMD or University and an ever expanding area of careers in Performing, Music Production, Sound Recording, Publishing, the Media and Journalism.



Purpose

This course provides opportunities to develop musical versatility and particular areas of interest. Pupils can gain understanding of music as a powerful medium of communication with a strong influence throughout the modern world. Flexibility within the overall structure allows each pupil to select a course well matched to their individual interests and needs.

Recommended Entry

Pupils would normally be expected to have attained:
Music at Higher Grade.

Course Details**Mandatory Unit - 80 hours**

Music: Performing, Inventing and Listening

Optional Unit - 40 hours

Music: Performing (Extension)

Progression

This course is an essential part of the continuous process leading to Degree courses at RSAMD or University and an ever expanding area of careers in Performing, Music Production, Sound Recording, Publishing, the Media and Journalism.



Purpose

This course in music sets out to provide pupils with opportunities to develop interests which contribute to personal development, enhance quality of life and provide skills and knowledge required for further study and enjoyment of music.

Recommended Entry

Pupils would be expected to have attained:
Standard Grade Music Grade 3 or 4, or equivalent experience.

Course Details

To obtain an Intermediate 2 level, pupils have to complete the three components of the course, Performing, Listening and Inventing.

Performing

Solo and/or Group. Minimum requirements Standard Grade 3.

Inventing

Composition/Compositions approximately 3 minutes.

Listening

Study of music from different periods or styles.

Optional Unit

Restricted to Performing only at present. 40 hour unit.
Minimum standard - Associated Board Grade 4.

Progression

This course is a part of the continuous process leading to Higher level.



Purpose

This course will offer pupils 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 pupils 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. The amount of written work is substantial.

Recommended Entry

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

For Higher

A Credit level award in Standard Grade Physical Education.
Intermediate 2 course award in Physical Education.
Other relevant prior experience in Physical Education,
including experience gained outwith certificate courses.

For Intermediate 2

A Grade 3 award in Standard Grade Physical Education.
Intermediate 1 course award in Physical Education.

Course Details

This course comprises of two mandatory units as follows:-

Performance - 60 hours

Analysis and Development of Performance - 60 hours

All courses include a further 40 hours for induction, extending the range of learning and teaching approaches, additional support, consolidation, integration of learning and preparation for external assessment.

This Higher / Intermediate Two course is for students who have a genuine interest and enthusiasm for studying sport and participation in physical activity. The ideal course candidate should be fit and healthy since the practical work is physically demanding. Currently the three activities covered are badminton, basketball and football.



Where possible the Performance and Analysis and Development of Performance units are delivered concurrently within the practical setting, however classroom work will be used to reinforce key concepts.

Progression

Additional units in the Physical Education framework.

Employment in the fitness, health, leisure and recreation industries.

PHYSICAL EDUCATION

- **SPORTS LEADERS UK LEVEL 1 AWARD IN SPORTS LEADERSHIP**
- **EARLY TOUCHES FOOTBALL COACHING**
- **TOP PLAY/TOP SPORTS**

The Sports Leaders UK Level 1 Award in Sports Leadership provides the ideal starting point for young people who wish to begin developing their sport leadership skills.

The syllabus is designed to develop generic leadership skills which can be applied to a variety of sporting activities as well as contributing to the candidate's personal and social education

The award is a practical qualification in which candidates must demonstrate knowledge and understanding mainly through physical competence rather than written work. The candidate's ability as a competent leader must be assessed by observation and supported by written assessment.

Successful candidates will receive a nationally recognised certificate.

Early Touches Football Coaching

To contribute further to the candidate's experience we will run an SFA approved Early Touches Level 1 Football Coaching Course. To achieve certification the candidate must demonstrate that he/she can coach simple football skills to Primary or S1 pupils.

Top Play/Top Sports

Candidates will also be involved in the Sports Scotland, Top Play and Top Sports initiative. This element of the course involves the candidate leading primary pupils in participation in physical activity. Integral to this part of the course is an element of Sports First Aid.

Purpose

This course reinforces and extends the knowledge and understanding of the concepts of Physics and related problem solving skills and practical abilities acquired at Standard Grade or Intermediate 2 Physics by providing a deeper insight into the structure of the subject. The course endeavours to provide learning experiences leading to the acquisition of worthwhile knowledge, skills and attitudes.

Recommended Entry

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

- Standard Grade Physics at 1 or 2 (Knowledge and Understanding and Problem Solving)
- or** Intermediate 2 Physics
- and** Standard Grade Mathematics at 1 or 2

Course Details

The course comprises three 40 hour mandatory units plus 40 hours flexible time.

Mechanics and Properties of Matter - 40 hours

Content outline: vectors, equations of motion, Newton's second law, momentum and impulse, pressure and density, gas laws.

Electricity and Electronics - 40 hours

Content outline: electric fields and resistors in circuits, alternating current and voltage, capacitance, analogue electronics.

Radiation and Matter - 40 hours

Content outline: waves, refraction of light, optoelectronics and semiconductors, nuclear reactions, dosimetry and safety.

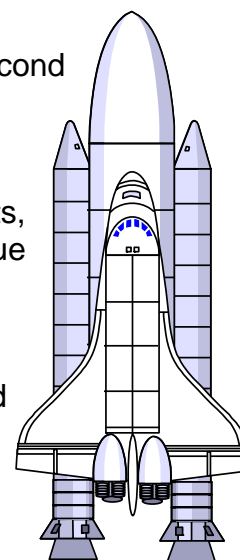
Progression

To Advanced Higher Physics.

To Degree, HND or HNC in Physics, Science, Mathematics, Computing or Engineering field.

To completion of a Group Award.

To employment in Physics, Science, Mathematics, Engineering, Technology or related area.



Purpose

This course has been designed to articulate with and provide progression from the Higher Physics course. Through a deeper insight into the structure of the subject, the course aims to provide a challenging experience for those who wish to study the subject at greater depth and to assist pupils towards an understanding of the use of mathematical models and techniques for describing the behaviour of nature. An opportunity for engaging in some independent research is provided. The resulting elements of knowledge and understanding, problem solving and practical abilities form the basis of the Advanced Higher Physics course. This course will provide those who wish to proceed beyond Advanced Higher Physics with a suitable basis for further study.

Recommended Entry

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

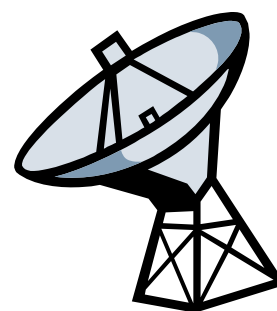
Higher Physics at A

Higher Mathematics at A

Course Details

The course comprises four mandatory units as follows:

Mechanics -	40 hours
Electrical Phenomena -	40 hours
Wave Phenomena -	20 hours
Physics Investigation -	20 hours



In common with all courses, this course includes 40 hours flexible time over and above the 120 hours for the component units.

Progression

To Degree, HND or HNC in Physics, Science, Mathematics, Computing or Engineering field.

To completion of a Group Award.

To employment in Physics, Science, Mathematics, Engineering, Technology or related area.

PHYSICS

INTERMEDIATE 2

Purpose

This course emphasises the contribution which physics makes to the student's general education. The course aims to develop the student's knowledge and understanding of the concepts of physics and the ability to solve problems. Throughout the course, opportunities are provided to carry out experimental work. The resulting elements of knowledge and understanding, problem solving and practical activities form the basis of the Intermediate 2 Physics course.

The course will assist students to make their own reasoned decisions on many issues within a modern society increasingly dependent on science and technology. The course will also provide those who wish to proceed to Higher Physics with a suitable basis for further study.

Recommended Entry

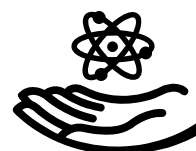
While entry is at the discretion of the centre, pupils would normally be expected to have attained:

either Standard Grade Physics at 3 or 4 (KU and PS)
or Standard Grade Biology or Chemistry at 1, 2 or 3 (KU and PS)
or Standard Grade Science at 1, 2 or 3 (KU and PS)
and Standard Grade Mathematics at 3 or 4, or Intermediate 1
 Mathematics

Course Details

The course comprises four mandatory units as follows:

Mechanics and Heat	40 hours
Electricity and Electronics	40 hours
Waves and Optics	20 hours
Radioactivity	20 hours



In common with all courses, this course includes 40 hours flexible time over and above the 120 hours for the component units.

Progression

To Higher Physics

To HND or HNC in Physics, Science, Mathematics, Computing or Engineering field.

To completion of a Group Award.

To employment in Physics, Science, Mathematics, Engineering, Technology or related area.

PSYCHOLOGY

HIGHER

Purpose

The aim of Higher Psychology is to develop understanding of the concepts underpinning the scientific discipline of psychology – the study of human behaviour. The course develops the ability to interpret, analyse and evaluate psychological theories, evidence and research methods in a critical way.

Recommended Entry

This course is open to S6 pupils and may be appropriate for some S5 pupils.

Course Content

There are 3 units:

- Understanding the individual – Early Childhood Development, Stress, Memory
- Investigating behaviour – how Psychologists carry out research. You will then carry out your own research investigation.
- The individual in the social context – Conformity and Obedience; Abnormal Behaviour.

There are 3 internal unit assessments, one external assessment and one research project that will count towards the mark for external assessment.

We will support you through this process.

The course is designed to stimulate curiosity and enjoyment. If you have ever wondered what makes people 'tick', sign up and find out!



Progression

Study in Psychology or social subjects at Higher or Further Education level.

NB: This course will be delivered in school by staff from Motherwell College.

Purpose

The study of Higher Sociology covers a wide range of topics including crime, education, the media, research, poverty, health, social class and the family. Sociology will allow you to think about these issues for yourself and to examine the questions behind the questions. You will be encouraged to think and examine these issues from many different viewpoints.

Recommended Entry

This course is open to S6 pupils.

Course Content

There are 3 mandatory units:

- Studying Human Society: The Sociological Approach
- Understanding Human Society 1
- Understanding Human Society 2

There are 3 internal unit assessments and a final external assessment.

Progression

Higher Sociology may provide progression to the following:

- HNC/HND Programmes in Social Sciences
- Higher Education
- Training or employment

Purpose

The purpose of this course is to develop candidates' knowledge and understanding of major world religion. Pupils will explore beliefs held by this religion concerning the nature of the human condition and how this can be remedied. This will involve the study of religion texts and practice.

Recommended Entry

A pass at Intermediate 1 (Making Moral Decisions, Does God Exist? or Islam and the Social World).

Content for this Unit

Buddhism
The Human Condition
The Goals of Buddhism
The means of achieving these goals

Progression

For most pupils this unit will be free-standing. However a pupil returning to RMPS the following year (S6) may be able to cover another 2 units. A pass in all 3 would give them the right to sit either the Intermediate 2 or Higher exam. A pass in Higher English is highly recommended.



TECHNICAL SUBJECTS PRODUCT DESIGN

HIGHER

Purpose

To promote understanding of the design process and of the factors which influence design.

To broaden the pupil's knowledge of manufacturing processes and materials.

To develop skills in designing related to the industrial context.

To provide experience, knowledge, understanding and skills which are transferable to a range of careers.

Recommended Entry

Pupils would normally be expected to have attained:

Standard Grade Craft and Design at Grade 1, or 2

Standard Grade Art and Design at Grade 1 or 2

Intermediate 2 Craft and Design, or component units



Course Details

Three Units, all of 40 hours plus 40 hours flexibility time.

Design Analysis - 40 hours

Evaluate a commercial product and produce a specification.

Establish a design specification from a brief.

Developing Design Proposals - 40 hours

Generate and develop ideas to satisfy a specification, and subsequently work towards a solution through design activity. Candidates would use written, graphical and modelling techniques to convey their ideas and produce a potential solution.

Manufacturing Products - 40 hours

Candidates will develop knowledge and understanding of commercial manufacturing processes, systems and materials and why they are used for particular products. Orthographic drawings will be used to convey information required for the manufacture of the products.

Progression

Achievement at Higher Product Design may provide progression to:

A Scottish Group Award in a related area at an appropriate level.

A Degree, HND or HNC in areas such as Product Design, Engineering, Interior Design.

Other University or Art College courses.

Employment in a wide range of occupations in fields such as engineering, construction or design.

PRODUCT DESIGN

INTERMEDIATE 2

Purpose

To promote understanding of the materials, processes and factors involved in designing and manufacturing products, related to the industrial context.

To provide experience, knowledge, understanding and skills appropriate to a career in the design, engineering or construction fields.

Recommended Entry

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
- Standard Grade Graphic Communication at Grade 3 or 4

Course Details

Three Units, all of 40 hours plus 40 hours flexibility time.

Design Analysis - 40 hours

Evaluate a commercial product and produce a specification.

Establish a design specification from a brief.

Developing Design Proposals - 40 hours

Generate and develop ideas to satisfy a specification, and subsequently work towards a solution through design activity. Candidates would use written, graphical and modelling techniques to convey their ideas and produce a potential solution.

Manufacturing Products - 40 hours

Candidates will develop knowledge and understanding of commercial manufacturing processes, systems and materials and why they are used for particular products. Orthographic drawings will be used to convey information required for the manufacture of the products.

Progression

Achievement at Intermediate 2 Product Design might enable progress to: Higher Product Design

A Scottish Group Award in a related area at an appropriate level

Employment in areas such as design, engineering or construction

RELATIONSHIP BETWEEN HIGHER AND INTERMEDIATE 2

Product Design Courses have been designed in a way in which it is possible to deliver Higher and Intermediate 2 courses together.

The Unit Specifications of Higher and Intermediate 2 contain common outcomes, and therefore, it is important to distinguish between the levels. At Higher there is:

- a greater breadth and depth of content
- a greater emphasis on the integration of topics
- an increased emphasis on designing in more complex contexts

Purpose

To promote awareness of the use of graphics and to give practice in the techniques employed in their creation.

To provide experience, knowledge, understanding and skills which are transferable to a range of careers.

Recommended Entry

Pupils would normally be expected to have attained:

Standard Grade Graphic Communication at Grade 1, 2 or possibly 3

Standard Grade Art and Design at Grade 1 or 2

Intermediate 2 Graphic Communication

Course Details

Three 40 hours units plus 40 hours flexible time.

Technical Graphics I - 40 hours

Apply manual techniques of pictorial representation of orthographic drawings.

Apply manual techniques in the generation of orthographic drawings.

Apply manual techniques of illustration and presentation to give emphasis and realism to graphic presentations.

Technical Graphics II - 40 hours

Apply manual techniques to produce drawing of components, assemblies and locations.

Apply the principles of dimensioning to orthographic drawings.

Demonstrate knowledge of the use of graphic communication within a typical company structure.

Computer Graphics - 40 hours

Produce orthographic and pictorial drawings using a computer package.

Produce computer-rendered drawings using an illustration/paint package.

Produce single and double page layouts using desk top publishing.

Demonstrate knowledge of the industrial and commercial applications of computer-aided graphics.

Progression

Achievement at Higher Grade Graphic Communication might enable progress to :-

A Scottish Group Award in a related area at an appropriate level.

A Degree, HND or HNC in area such as Engineering, Architecture or Graphic Design.

Other University or College courses.

Employment in a wide range of occupations such as Engineering, Construction or Design.

Purpose

To develop knowledge and skills in sketching and drawing everyday items.
To develop an understanding of the need for clear and accurate drawings.
To gain knowledge of relevant British Standards.

Recommended Entry

Pupils would normally be expected to have attained:
Standard Grade Graphic Communication at Grade 3 or 4

Course Details

Three units of 40 hours plus 40 hours flexible time.

Technical Graphics I - 40 hours

Sketch and draw pictorial views of everyday items.

Sketch and draw pictorial views of whole and part sections.

Sketch and draw exploded pictorial views of everyday items.

Apply manual techniques of illustration and presentation techniques to pictorial views in a promotional graphics display.

Technical Graphics II- 40 hours

Sketch and draw views of everyday items in orthographic projection.

Sketch and draw assembly and sectional views in orthographic projection.

Construct and draw views of prisms, pyramids, cylinders and cones.

Apply knowledge of British Standard conventions.

Computer Graphics - 40 hours

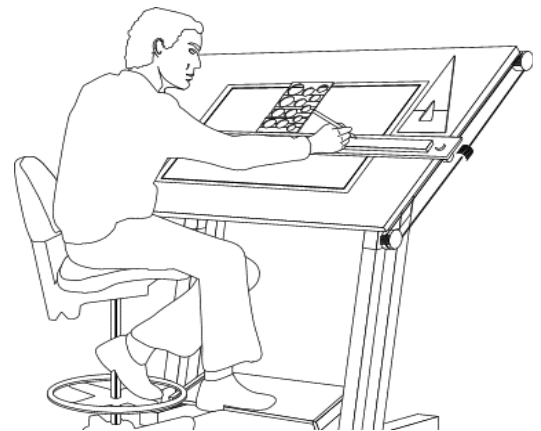
Understand how CAD and DTP packages are used within industry.

Use a CAD package to produce views of everyday items.

Use a CAD package to produce pictorial drawings.

Use an illustration package to produce presentation graphics.

Use a desk-top publishing package to produce effective layouts.

**Progression**

Achievement at Intermediate 2 Graphic Communication might enable progress to:-

Higher Graphic Communication

A Scottish Group Award at an appropriate level in Engineering or Construction or Art and Design

Employment or placement on an industrial training course.

STRATHAVEN ACADEMY

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COURSES OF STUDY IN THE UPPER SCHOOL



SESSION 2009 – 2010