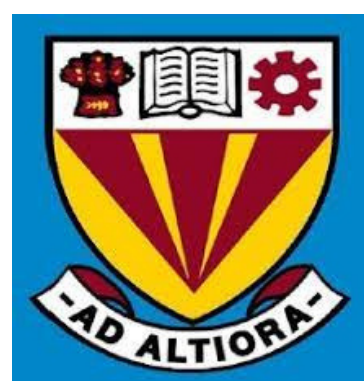




ANGUS ACADEMY

Course Choice Booklet





Introduction

Angus Academy will offer a range of courses for senior phase students next session. It is a partnership which enables all of our secondary schools to increase opportunities and ensure equity for young people in Angus in the senior phase.

The courses on offer are mainly Advanced Highers for students in S6, but there are some Higher courses that both S5 and S6 students can select. The subjects that are on offer will either run in column B or D.

Column B will run on Monday afternoons and Wednesday in the middle of the day. Column D will run on Tuesday in the middle of the day and Thursday afternoons. Face-to-face teaching sessions will run either weekly or twice per term, depending on course requirements, in the middle of the day. All other lessons will be virtual. Details of all the courses on offer can be found in this booklet.

In most schools students will also have one period for independent work associated with the chosen Angus Academy course. This will allow students to undertake elements of written coursework for submission. This will also be excellent preparation for the kind of independent research that young people are required to do if they go to university.

On each school's course choice sheet, you will see what courses are on offer. Some Advanced Highers will still be delivered outwith the Angus Academy offer in home schools or via the TRIC.

The header of the page features a blue background with a large, stylized white 'AA' logo on the left and a large, stylized white 'A' logo on the right.

Entry Requirements

Students who wish to opt for one of the Angus Academy courses should be on track to achieve an A/B pass at H/N5, as appropriate, in the same subject (in some cases similar subjects will be considered). There may also be specific entry requirements in the course guide.

If a course is over-subscribed the learner journeys of all of the young people who have opted for the course will be considered. Places on each course will be allocated fairly after consideration of learner journeys and will not simply be that the school delivering the course will be allocated spaces first (apart from AH Biology/Chemistry).

Transport

Transport arrangements will be put in place to ensure that students are able to travel from their own school to the school where the Angus Academy offer is being delivered when in-person lessons are due to take place. In some cases this may be via public transport if this is suitable.

Angus Academy offers exciting opportunities for the young people of Angus and is similar to schemes run in other local authority areas. The hybrid model of delivery will encourage independence and help best prepare our young people for life beyond school.

Summary of Courses Available

Course	Level	Column	Location
Biology	AH	B	Carnoustie High School
Chemistry	AH	D	Montrose Academy
Computing	AH	B	Brechin High School
English	AH	B	Forfar Academy
French	AH	D	Carnoustie High School
Geography	AH	D	Arbroath Academy
History	AH	B OR D	Carnoustie High School OR Forfar Academy
Maths	AH	B OR D	Forfar Academy OR Monifieth High School
Modern Studies	AH	D	Montrose Academy
PE	AH	B OR D	Carnoustie High School OR Arbroath Academy
Physics	AH	B OR D	Monifieth High School OR Forfar Academy
Statistics	AH	B	Monifieth High School
Computing	H	D	Brechin High School
Philosophy	H	B	Brechin High School
Spanish	H	B	Arbroath High School

Biology

Progression Pathway

H Biology

AH Biology

HND, degree or career in biology or a related area, such as medicine, dentistry, veterinary medicine, professions allied to medicine, horticulture, pharmacology, environmental science or health.

Course Outline

This course is composed of the following 3 Units:

Cells and Proteins – Proteomics, protein structure, binding and conformational change; membrane proteins; detecting and amplifying a stimulus; communication within multicellular organism and protein control of cell division. The Unit includes important laboratory techniques for biologists.

Organisms and Evolution – Evolution; variation and sexual reproduction; sex and behaviour and parasitism. This Unit covers techniques for ecological field study.

Investigative Biology – This Unit builds on understanding of the scientific method from Higher Biology. Learners will develop knowledge and understanding of the principles and practice of investigative biology and its communication. The Unit covers scientific principles and processes, experimentation, and critical evaluation of biological research.

Course Assessment

To gain the award of the Course, the learner must pass the Course assessment. Course assessment will provide the basis for grading attainment in the Course award at levels A-D.

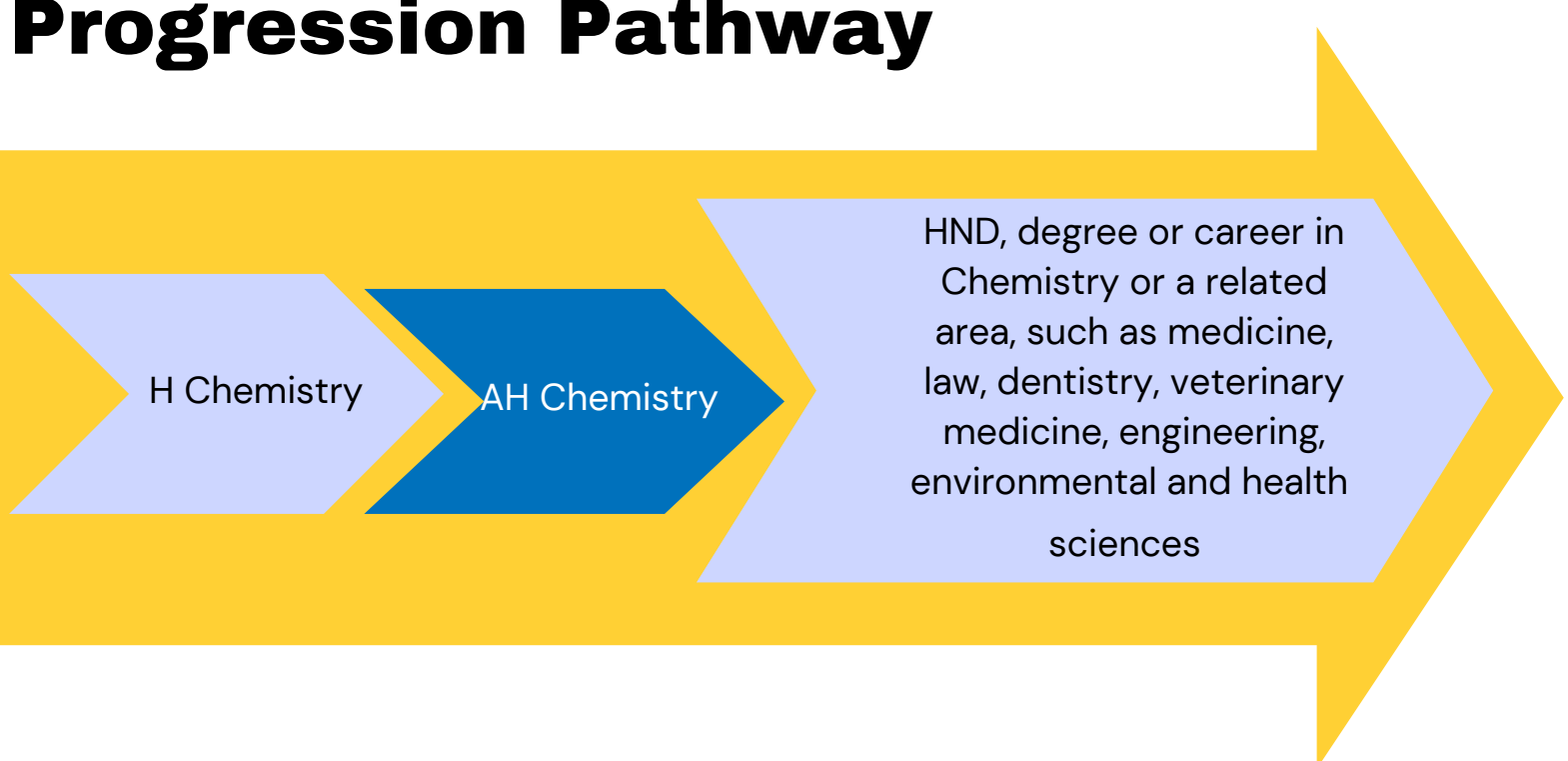
The Course assessment is externally assessed and composed of the following two components:

- Question paper – 100 marks
- Project – 30 marks

Chemistry

The logo consists of the letters 'A' and 'H' in a white, bold, sans-serif font, positioned side-by-side within a solid purple square.

Progression Pathway

The diagram illustrates a progression pathway. It features a large yellow arrow pointing to the right. Inside this arrow, there are two smaller chevrons pointing right. The first chevron is light blue and contains the text 'H Chemistry'. The second chevron is a darker blue and contains the text 'AH Chemistry'. To the right of the 'AH Chemistry' chevron, still within the large yellow arrow, is a light blue rectangular box containing the text: 'HND, degree or career in Chemistry or a related area, such as medicine, law, dentistry, veterinary medicine, engineering, environmental and health sciences'.

H Chemistry

AH Chemistry

HND, degree or career in Chemistry or a related area, such as medicine, law, dentistry, veterinary medicine, engineering, environmental and health sciences

Course Outline

The course is comprised of three units:

Unit 1 – Inorganic Chemistry

Unit 2 – Physical Chemistry

Unit 3 – Organic Chemistry

Unit 4 – Researching Chemistry

Study at this level builds on previous knowledge and understanding of the physical and natural environments. Throughout the course, concepts which have been introduced in the Higher course are developed, leading to deeper and broader understanding. The range of practical skills is also developed with many new techniques being introduced. The course also develops the skills of independent study and thought – particularly during the individual research project. The course is particularly suitable for candidates 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.

Course Assessment

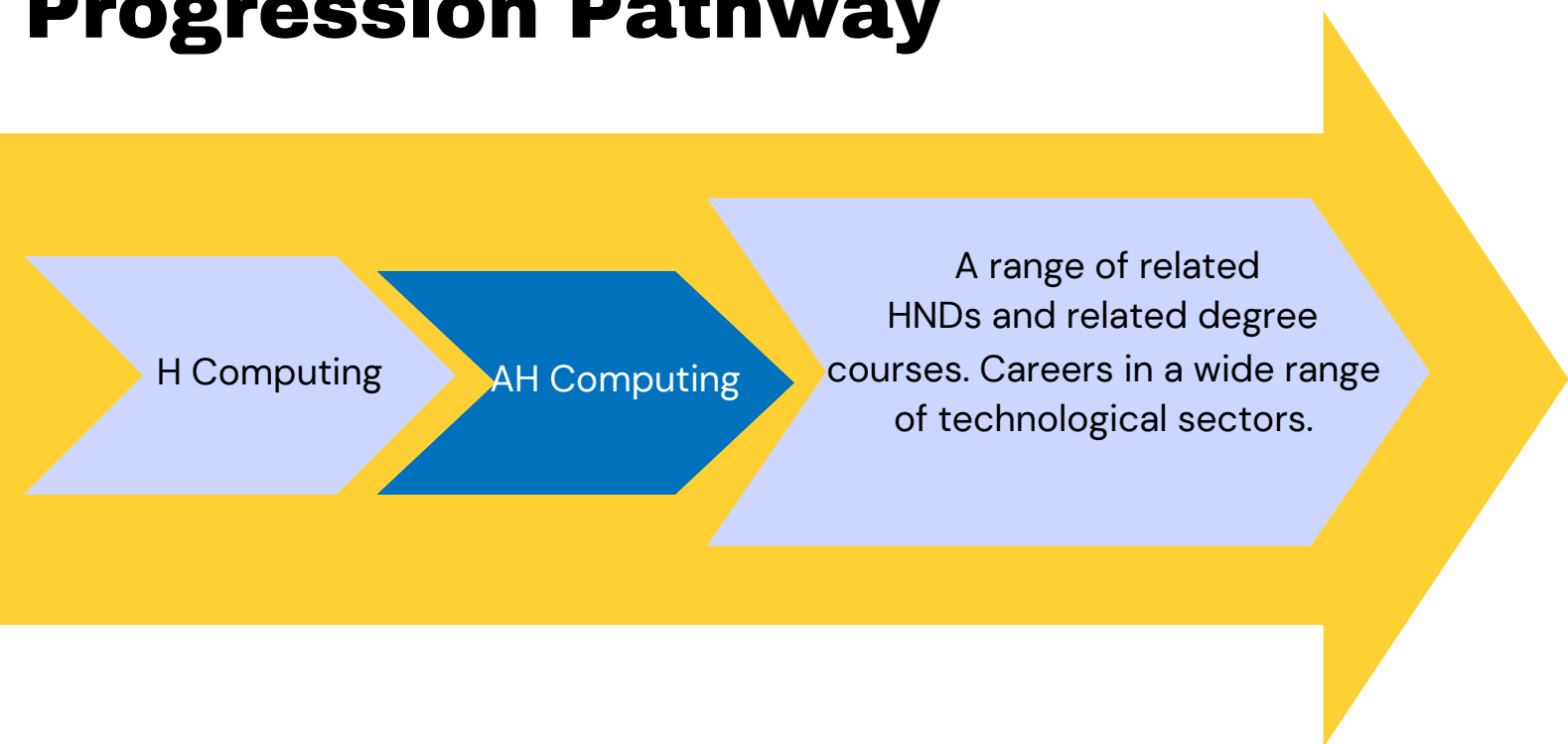
To gain the award of the Course, the learner must pass the Course assessment. The Course assessment is externally assessed and composed of the following two components:

- Question Paper – 100 marks
- Project – 30 marks

Computing Science



Progression Pathway



Course Outline

The course provides a broad and challenging exploration of computing technologies, focusing on developing advanced programming and research skills. Candidates learn to apply a rigorous approach to the design and development process. The course has four areas of study:

- software design and development
- database design and development
- web design and development
- computer systems

Course Assessment

The Course assessment is externally assessed and composed of the following components:

- Question Paper – 55 marks

The question paper has three sections. Section 1 is mandatory, and candidates have the option to complete either section 2 or section 3.

- Section 1: Software design and development – 35 marks
- Section 2: Database design and development – 20 marks
- Section 3: Web design and development – 20 marks

Project 80 marks

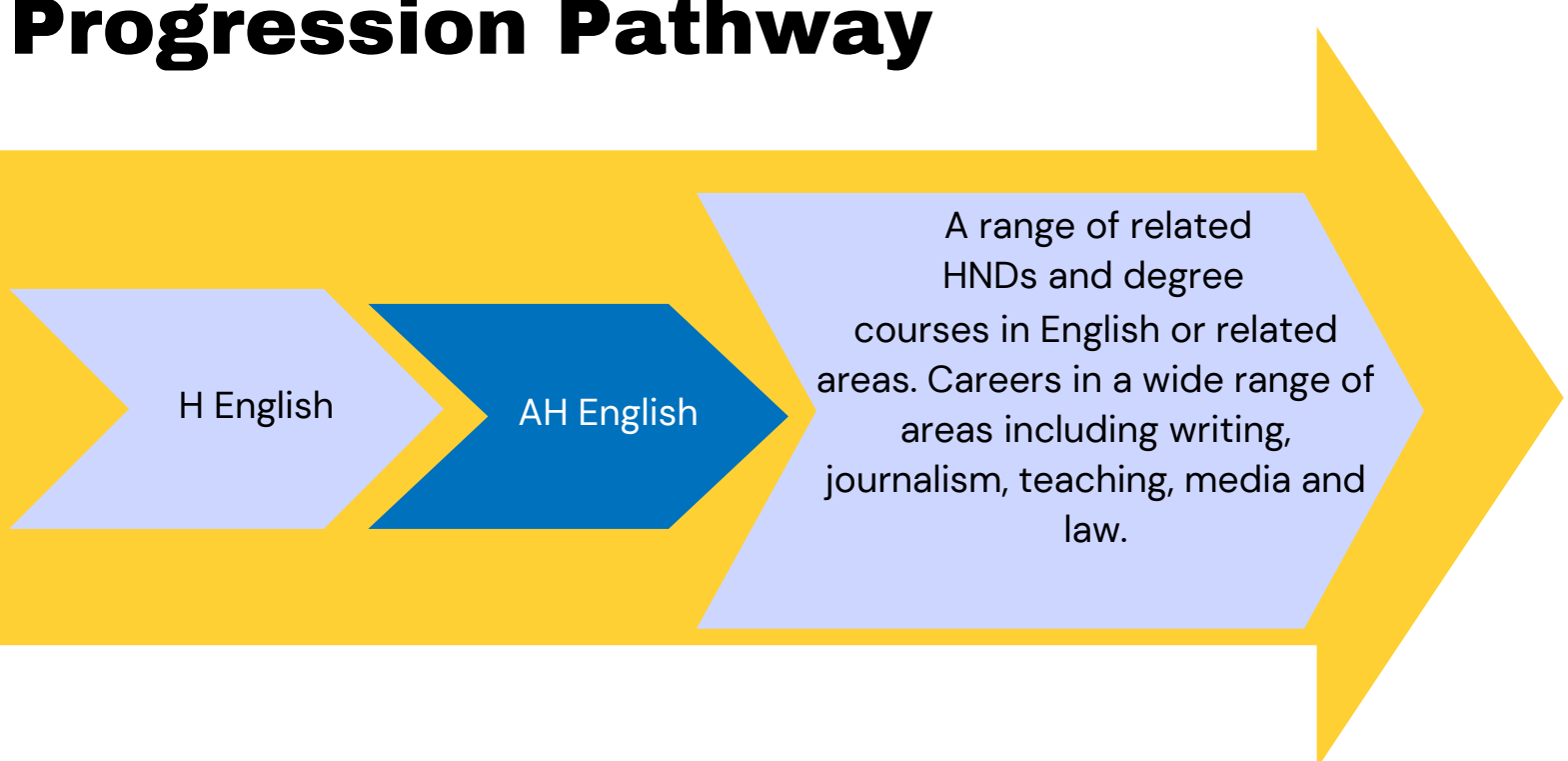
The project gives candidates the opportunity to:

- apply computational thinking to solve a complex computing problem
- analyse a complex problem within a computing science context
- design, develop, implement, test, and evaluate a digital solution to a
- complex problem demonstrate advanced skills in computer programming
- communicate understanding of complex concepts related to computing science, clearly and concisely, using
- appropriate terminology

English

The logo consists of the letters 'A' and 'H' in a white, bold, sans-serif font, positioned side-by-side within a solid purple square.

Progression Pathway

A diagram showing a progression pathway. It features three chevron-shaped boxes pointing to the right, set against a yellow background. The first box is light blue and contains the text 'H English'. The second box is dark blue and contains the text 'AH English'. The third box is light blue and contains a paragraph of text about related HNDs and degree courses. The boxes are arranged in a sequence, with the first two boxes being smaller and the third box being larger and positioned further to the right.

H English

AH English

A range of related HNDs and degree courses in English or related areas. Careers in a wide range of areas including writing, journalism, teaching, media and law.

Course Outline

The Advanced Higher English course is comprised of two units:

Analysis and Evaluation Learners will provide evidence of their ability to critically respond to previously studied complex and sophisticated texts, and of their ability to carry out an independent study into an aspect or aspects of literature.

Creation and Production Learners will provide evidence of their writing skills through the production of writing which demonstrates a range of skills necessary for the deployment of language to create effect.

Course Assessment

The course will be graded A-D by the external assessment of:

- A two-part portfolio – total 60%

Part A: Dissertation – 30%

Part B: Writing – 30% (comprising two pieces of original writing)

- A two-part question paper – total 40%

Part A: Literary study – 20%

Part B: Textual Analysis – 20%

French

AH

Progression Pathway

H French

AH French

Other modern language qualifications or related areas, further study, employment and/or training.

Course Outline

The Advanced Higher French course consists of 3 units:

Understanding Language – Within the contexts of Society, Learning, Employability and Culture students have the opportunity to develop and extend their reading and listening skills

Using Language – In the same four contexts students develop and extend their talking and writing skills

Specialist study – Students develop and extend their planning, research, and analytical skills to undertake an independent study based on literature or media.

Course Assessment

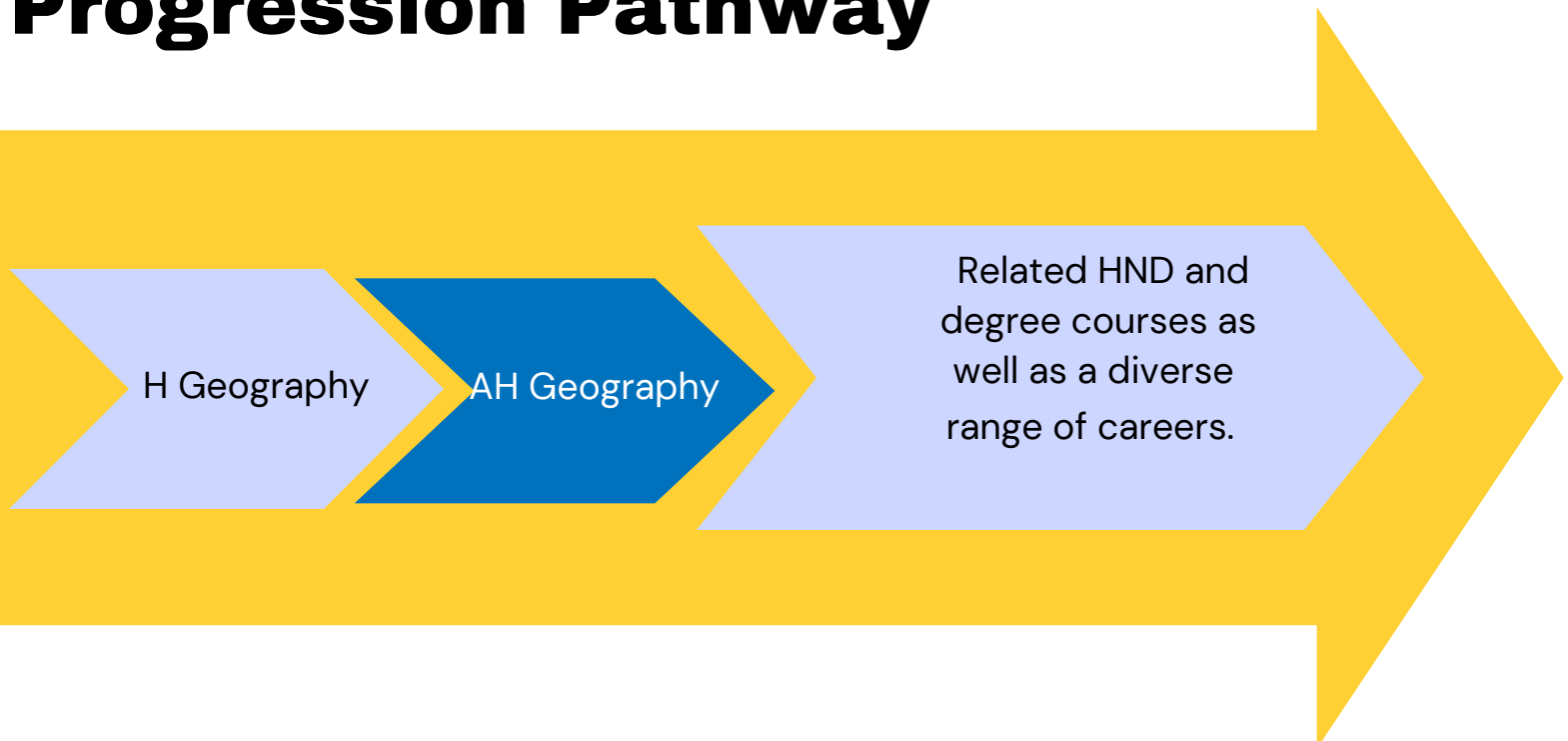
The course assessment will comprise:

- A Reading and Translation paper worth 50 marks
- A Listening and Discursive writing paper worth 70 marks
- A Talking performance marked by a Visiting Examiner worth 50 marks (completed in February or March)
- A portfolio (the final product of the work done on a literary or media topic). This is worth 30 marks and is sent off to the SQA for assessment by them before the Easter break.

Geography

The logo consists of the letters 'A' and 'H' in a white, bold, sans-serif font, positioned side-by-side within a solid purple square.

Progression Pathway

A large yellow arrow pointing to the right, containing three smaller chevron-shaped boxes. The first box is light blue and contains the text 'H Geography'. The second box is dark blue and contains the text 'AH Geography'. The third box is light blue and contains the text 'Related HND and degree courses as well as a diverse range of careers.'

H Geography

AH Geography

Related HND and degree courses as well as a diverse range of careers.

Course Outline

The Advanced Higher qualification in Geography aims to give learners an in-depth understanding of complex ideas about how the world works. The course provides learners with the chance to carry out their own research on geographical issues of interest to themselves, with an emphasis on fieldwork.

Course Assessment

There will be 2 elements that are externally assessed:

Question Paper 50/150

- The exam comprises 3 topics looking at:

Question 1 – Map Interpretation

Question 2 – Gathering and Processing Techniques

Question 3 – Geographical Data Handling

Folio 100/150

- Geographical Study
- Geographical Essay

There will be 2 internal unit assessments:

Geographical Skills

Developing a range of geographical methods and techniques. These include mapping skills, graphical techniques, and a wide range of interpreting techniques for gathering, analysing, and geographical data.

Geographical Issues Developing critical thinking and the ability to evaluate viewpoints using evidence from a wide range of sources on complex, current geographical issues.

History

AH

Progression Pathway

H History

AH History

Related HND and degree courses as well as a diverse range of careers.

Course Outline

‘Germany: from democracy to dictatorship, 1918–39 A study of the changing nature of political authority; the reasons for changes; and the consequences of the changing character of political authority.

The creation of the Weimar Republic, including: military defeat; the November Revolution and the Treaty of Versailles; social and political instability; economic crisis and hyperinflation. A period of relative stability, including: currency reform and the Dawes plan; social welfare provision; the Stresemann era in foreign affairs. The collapse of the Weimar Republic, including: economic depression and mass unemployment; the weakening of democracy; Brüning to Schleicher; the rise of Nazism; Hitler and the Nazi takeover of power. The transformation of post-Weimar society, including: Nazi consolidation of power in Germany; Nazi social and racial policies; Nazi economic and foreign policies; resistance and opposition.

Course Assessment

The dissertation: The dissertation will allow learners to apply research analysis and evaluation skills as they investigate a complex historical issue. 50 marks.

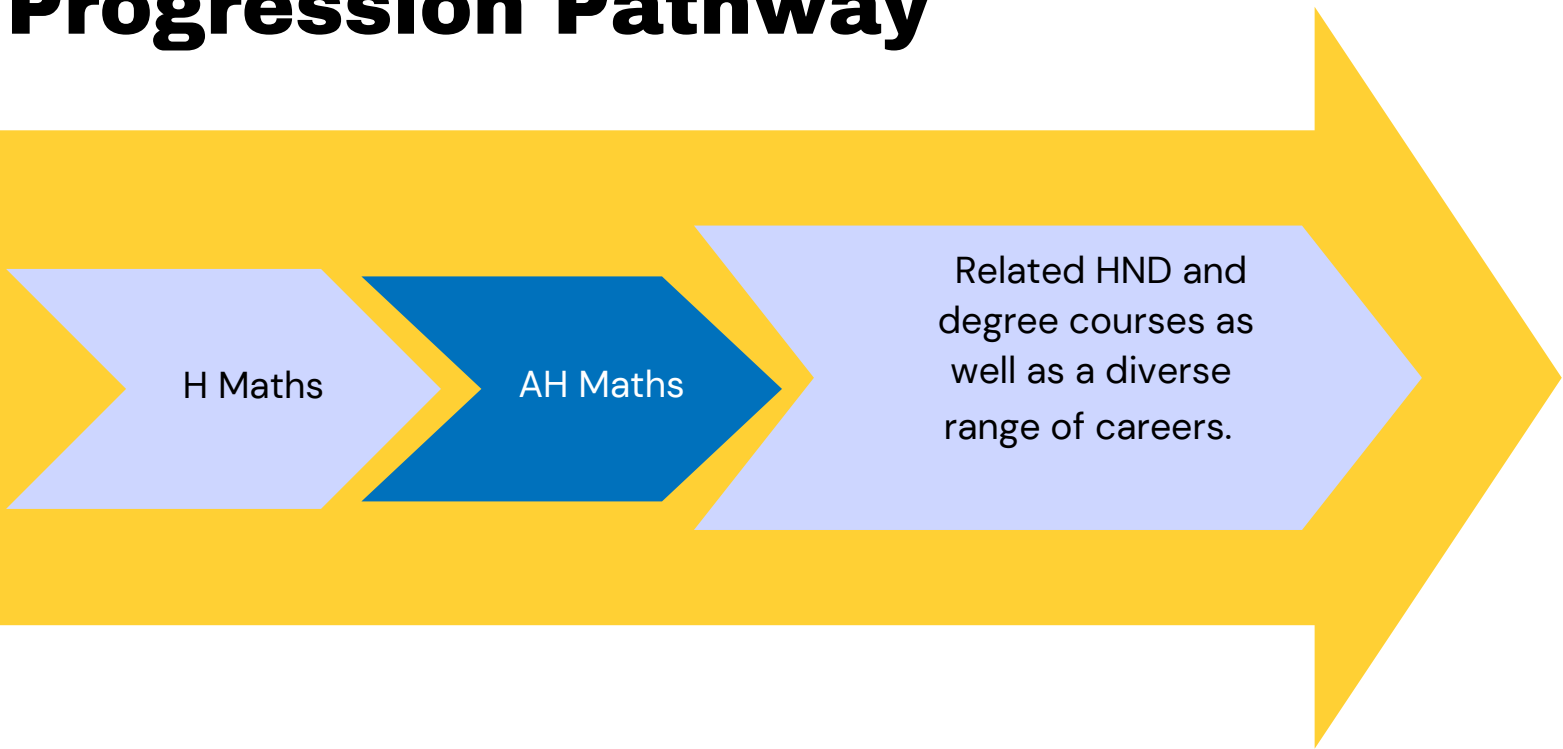
The Question Paper (3 hours): The question paper is marked out of 90. It will be divided into two sections:

- Historical Issues – 50 marks. This Section will be made up of extended response questions requiring the learner to draw on the knowledge and understanding and skills acquired during the Course.
- Historical Sources – 40 marks. This Section will be made up of extended response questions requiring the learner to draw on the knowledge and understanding and skills acquired during the course and apply these to unseen historical sources.

Maths

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Progression Pathway

A large yellow arrow pointing to the right, containing three smaller chevron-shaped boxes. The first box is light blue and contains the text 'H Maths'. The second box is dark blue and contains the text 'AH Maths'. The third box is light blue and contains the text 'Related HND and degree courses as well as a diverse range of careers.'

H Maths

AH Maths

Related HND and degree courses as well as a diverse range of careers.

Course Outline

The Advanced Higher Mathematics course develops, deepens and extends the mathematical skills necessary at this level and beyond. Throughout this course, candidates acquire and apply operational skills necessary for exploring complex mathematical ideas. They select and apply mathematical techniques and develop their understanding of the interdependencies within mathematics.

Candidates develop mathematical reasoning skills and gain experience in making informed decisions.

Course Assessment

Question paper 1 (non-calculator) 35 marks

This question paper allows candidates to demonstrate the application of mathematical skills, knowledge and understanding from across the course. Candidates must not use a calculator.

Question paper 2 80 marks

This question paper assesses mathematical skills. Candidates may use a calculator.

This question paper gives candidates an opportunity to apply numerical, algebraic, geometric, trigonometric, calculus, and reasoning skills.

Modern Studies

AH

Progression Pathway

H Modern
Studies

AH Modern
Studies

Related HND and
degree courses as
well as a diverse
range of careers.

Course Outline

Unit 1: Social Issues: Law and Order and Social Research Methods

Context B – Understanding criminal behaviour: A) Definitions, measurements and perceptions of crime. B) Contemporary relevance of theories of criminal. C) Social and economic impact of criminal behaviour. **Context C – Responses by society to crime:** A) Contemporary relevance of theories of punishment. B) Preventative responses to crime. C) Criminal justice responses to crime. **Research Methods:** A) Qualitative and quantitative social scientific research methodology. B) Source evaluation.

Unit 2: Researching Contemporary Issues Pupils conduct independent primary and secondary research on a law and order topic, developing the investigative skills of planning, researching, analysing, and presentation through the production of a 5000 word dissertation.

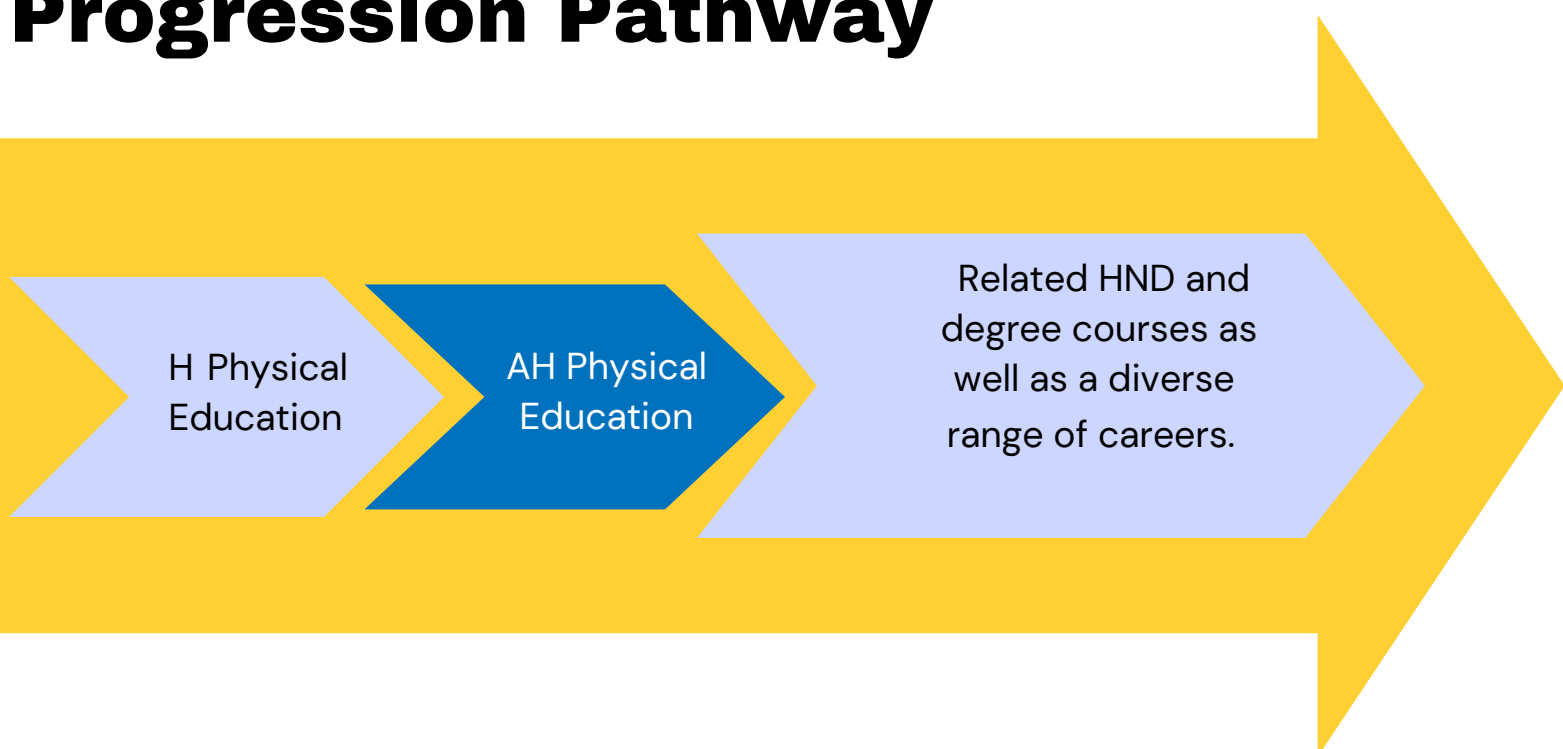
Course Assessment

To gain a full award for this course, pupils must achieve all the component units of the course (internally assessed) as well as an external assessment. The external assessment comprises an externally set and assessed question paper and the dissertation. In addition, pupils must pass internal assessments throughout the course relating to the content of Units 1 and 2.

Physical Education



Progression Pathway



Course Outline

Students will research and analyse factors which underpin and impact on performance then use this knowledge to develop their own performance or that of others. This will involve:

- Independent academic-research into factors impacting performance
- Investigating your own performance or that of others
- Planning and implementing a Performance Development Plan (PDP)
- Reviewing and evaluating the success of your PDP

Learners will understand how to develop consistency of performance in challenging environments and become proficient in their ability to analyse and apply strategies and techniques to make appropriate decisions about their personal performance. AH PE is mainly classroom based with some practical lessons. Pupils will gather data and complete their PDP in their chosen activity outside school. It is advisable that the candidate is actively involved in competitive sport outwith school, and is on track to achieve an A/B at Higher English.

Course Assessment

Project: Learners will complete a 5,000 word dissertation that will be submitted to the SQA for marking. This is worth 70% of the final grade. To be successful in this area of the course learners must have a strong background in written subjects (recommended A or B in Higher English or similar subject).

Learners will be assessed in an activity of their choosing. This will make up 30% of the final grade. The assessment will take place in a single, one-off assessment that takes place in a challenging or competitive environment. Learners should already be participating in a sport(s) at a high level, outside of school.

Physics

AH

Progression Pathway

H Physics

AH Physics

Related HND and degree courses as well as a diverse range of careers.

Course Outline

This course is composed of the following four Units:

Rotational Motion and Astrophysics

Develop and apply concepts and principles in a wide variety of situations involving angular motion, rotational dynamics, and angular momentum.

Quanta and Waves

Develop and apply concepts and principles in a wide variety of situations involving quantum theory and waves.

Electromagnetism

Develop and apply concepts and principles in a wide variety of situations involving electromagnetism.

Investigating Physics

This unit offers opportunities for independent learning set within the context of experimental physics.

Learners will identify, research, plan and carry out a physics investigation of their choice.

Course Assessment

Course assessment will provide the basis for grading attainment in the Course award at levels A-D. The Course assessment is externally assessed and composed of the following two components:

- Component 1 — question paper 100 marks.
- Component 2 — project 30 marks.

Statistics

AH

Progression Pathway

H Maths

H Applications
of Maths

AH Statistics

A range of related HND or degree courses in Statistics, or which involve research or data analysis.

Careers related to medicine, finance, economics, psychology, environmental science and actuarial.

Course Outline

Learning statistics develops logical reasoning, analysis, problem-solving skills, creativity, and the ability to think in abstract ways. The course develops important statistical techniques that allow candidates to make links between statistical models and the real world, facilitating reasoned arguments based on sound logic.

The course comprises three units:

Data Analysis and Modelling – we calculate theoretical probabilities and model how larger data sets should behave.

Statistical Inference – here we investigate methods in collecting data for sampling purposes.

Hypothesis Testing – this involves choosing a test appropriate to the data we have, comparing it to a previous norm or belief. Once our choice is made, we carry out the test and make our conclusion on the back of our calculations.

Course Assessment

This consists of two examination papers at the end of the course.

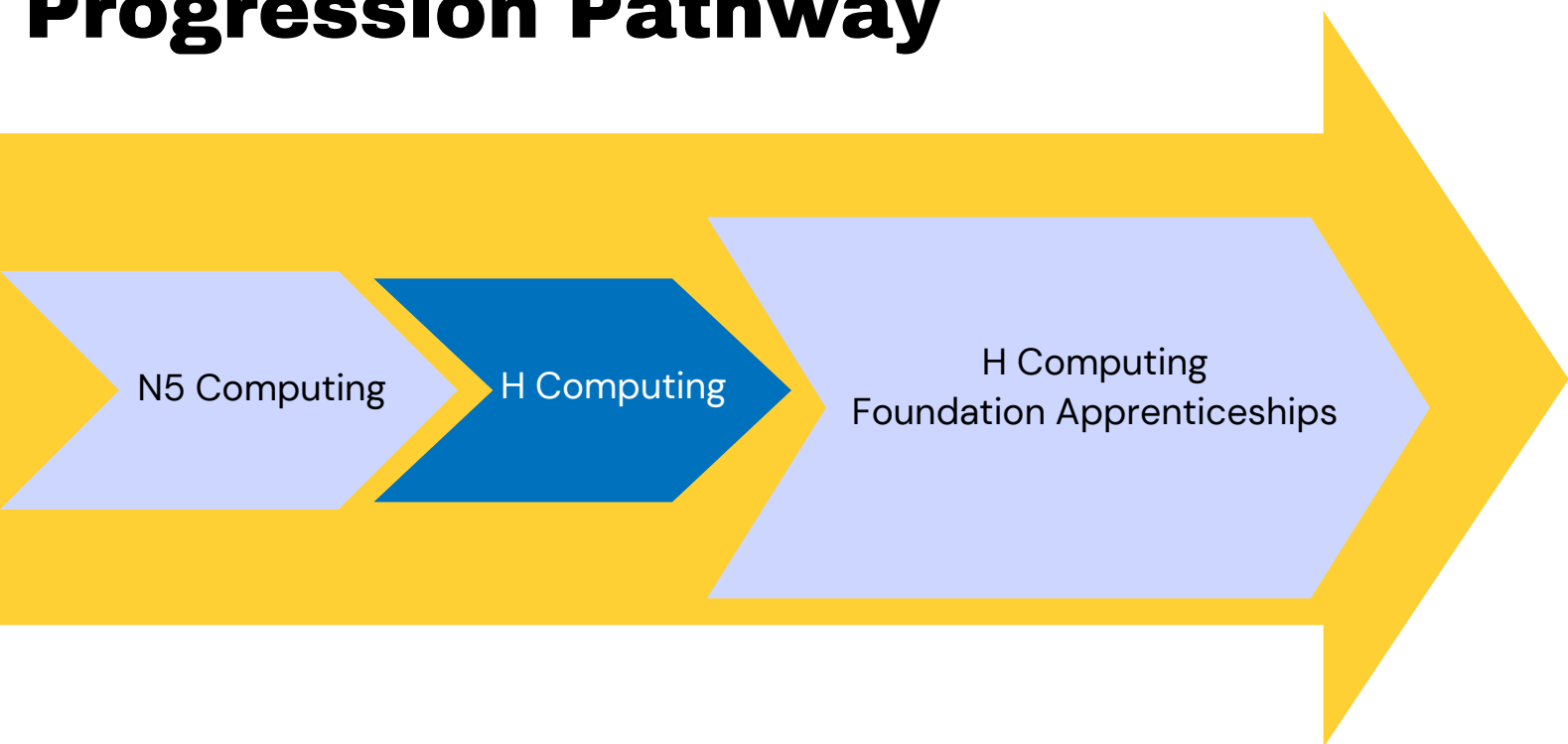
Paper 1 is worth 30 marks and lasts 1 hour. It will typically contain two questions that give candidates an opportunity to analyse a statistical report and to interpret summary statistics, including those generated by statistical software packages.

Paper 2 is worth 90 marks and lasts 2 hours and 45 minutes. It will contain questions which give candidates an opportunity to apply an understanding of the underlying processes involved in hypothesis testing, statistical inference and data analysis specified above.

Computing Science



Progression Pathway



Course Outline

The Course has two mandatory units:

Software Design and Development

Candidates develop knowledge and understanding of advanced concepts and practical problem-solving skills in software design and development.

Computer systems

Candidates develop their understanding of how data and instructions are stored in binary form and factors affecting system performance.

Learners will also undertake one Optional Unit from:

Database Design and Development

Candidates develop knowledge, understanding and advanced practical problem-solving skills in database design and development.

Web Design and Development

Candidates develop knowledge, understanding and advanced practical problem-solving skills in web design and development.

Brechin High School: Programming Language used is Python. Optional Unit delivered is Database Design and Development

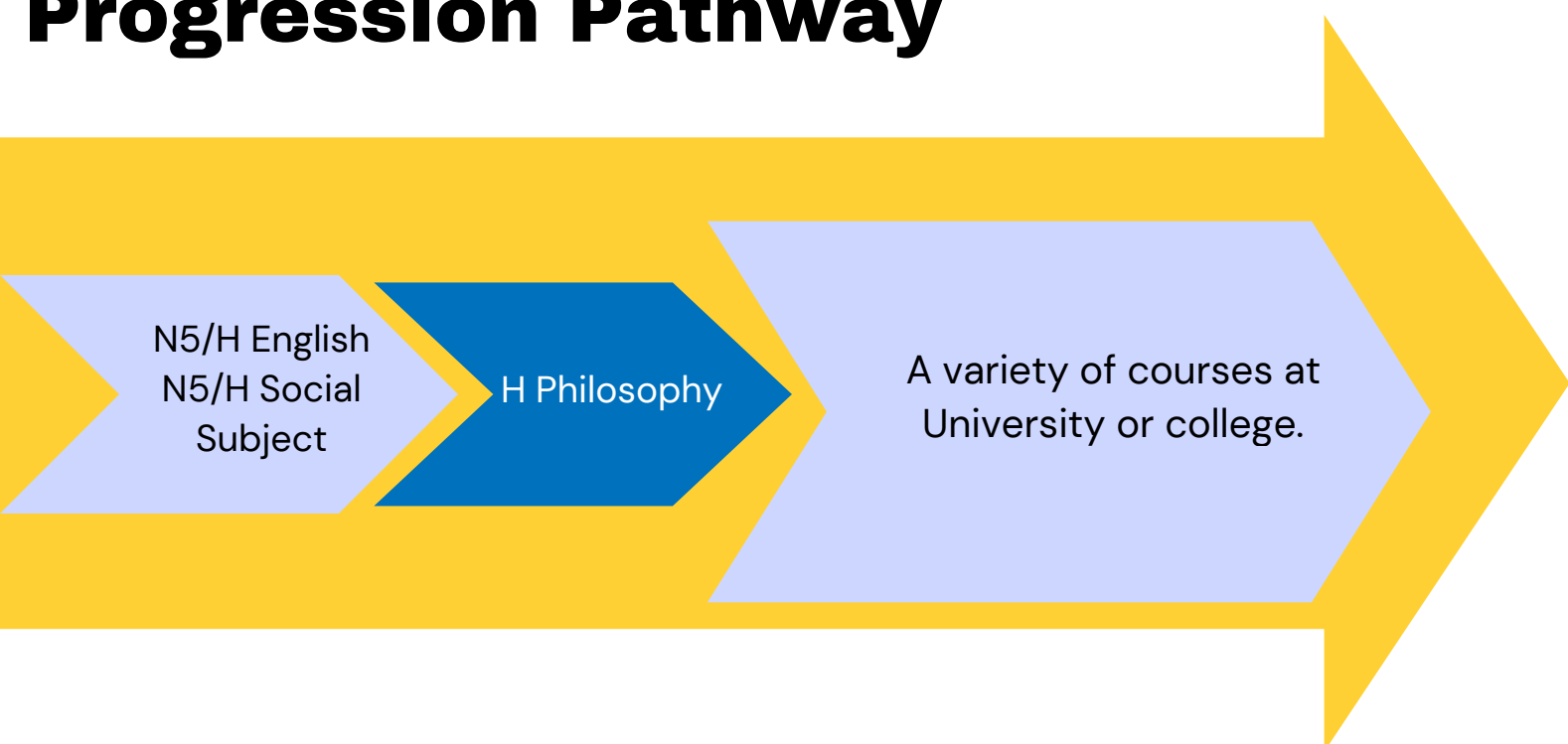
Course Assessment

Candidates will be assessed by a combination of a question paper worth 80 marks and an assignment worth 40 marks. Learners will apply knowledge and skills to solve an appropriately challenging computing science problem. The question paper is attempted as a 2 hour exam. The assignment is completed over a period of 6 hours.

Philosophy



Progression Pathway



Course Outline

Pupils study 3 units:

- **Arguments in Action:** Pupils will develop critical thinking skills and the ability to analyse and evaluate arguments. Pupils will study argument structure, philosophical techniques and common errors in reasoning.
- **Knowledge and Doubt:** Pupils will study two Philosophers who have different theories on how we come to have knowledge.
 - o Descartes – Descartes believed we are all born with some knowledge that we uncover throughout our lives using our reason and logic.
 - o Hume – Hume believed we are born knowing nothing, and can only know things through our experiences and the senses.
- **Moral Philosophy:** Pupils will study two moral theories and evaluate their effectiveness in helping us to decide between right and wrong. Pupils will also apply moral theories to real life and hypothetical scenarios.
 - o Utilitarianism – Utilitarians believe in the greatest happiness for the greatest number – so long as the consequences bring about lots of happiness then it is the morally correct thing to do.
 - o Kantianism – Kant believed consequences are not important. It is your motive that determines right and wrong and we should always carry out our duty, even if it causes bad things to happen.

Course Assessment

Internal:

- End of unit assessments based on the exam questions (results will generate a working grade for tracking purposes)

External:

- SQA Examination: 110 marks over 2 Papers
- Paper 1: This paper has 2 essay questions to answer. The first essay will be on either Descartes or Hume – philosophers studied as part of unit 2. The second essay will be on either Utilitarianism or Kantianism – the moral theories studied in unit 3. Both essays are worth 30 marks.
- Paper 2: This is made of short answer questions from each section of the course. 30 marks are for unit 1 (Arguments in Action), and 10 marks each for Knowledge & Doubt and Moral Philosophy.
- There is no coursework or assignment for Higher Philosophy.

Spanish



Progression Pathway

N5
Spanish

H Spanish

Advanced Higher.
Further study of
languages. A variety of
University and college
courses.

Course Outline

The course covers the study of 4 main context areas – Society, Learning, Employability and Culture, looking in detail at topics such as family and relationships, media and technology, health, school and future plans, the importance of languages in the world of work and holidays.

Within this framework, we will develop our skills and confidence in Listening, Reading, Talking and Writing.

Course Assessment

The course assessment will comprise externally and internally assessed components, totalling 120 marks.

Talking assessment – 30 marks, internally assessed and completed in late February/Early March

Writing Assignment – 20 marks, completed in class time and externally marked. This will be completed early in term 3.

SQA exams in May comprise of:

Paper 1 – Reading, Translation and Directed Writing 50 marks. (Reading 20, Translation 10, Directed Writing 20)

Paper 2 – Listening, 20 marks.