

**COURSE DESIGN BOOKLET
(6th FORM OPTIONS)
SEPTEMBER 2014**



Milford Haven School
Ysgol Gyfun Aberdaugleddau



Welcome to Milford Haven Sixth Form

With over 170 students studying a wide range of courses, our Sixth Form provides progression and challenge and a genuine opportunity for involvement in the life and wider work of the school. At Milford Haven School students are given guidance and tutorial support by a specialist Sixth Form team, as well as a wide range of cultural and social opportunities. Students are given roles to develop leadership skills and fulfil their potential in a variety of voluntary activities. The Welsh Baccalaureate brings together all of these aspects and provides a valued qualification which has been instrumental in enabling many students to progress to further and higher education on completing their Sixth Form courses.

We believe that students should develop their individual personalities while at the same time acknowledge responsibility for work ethic, appearance and general attitude. The Sixth Form has a smart uniform chosen by former students in the school and popular amongst those currently here.

Large numbers of our students progress each year to Higher Education aided by a curriculum which offers Level 3 courses [Advanced Level and BTEC Nationals] both here and at our partner institutions of Pembroke and Greenhill schools and Pembrokeshire College. We also offer Level 2 courses for those who prefer to remain at school but who are not ready to move on to Advanced courses.

Partnership is key to our philosophy. We work closely with staff, students, parents and the local community to ensure that partnership is real and effective. Students have an important role in decision making in the school through involvement in the Student Council and by standing for roles such as Head Boy or Head girl.



R Francis
Headteacher

Learning Pathways

Introduction to Sixth Form Courses 2014

There are two main pathways for students who wish to study in the Sixth Form at Milford Haven School.

- a) Advanced level courses and the Welsh Baccalaureate. All Sixth Form students study the Welsh Baccalaureate at Advanced Level together with up to four Option choices at AS level. In Year 13 students complete A Levels by choosing A2 courses.

The entry requirement for Advanced level courses in the Sixth Form is a minimum of 5 GCSEs at Grades A*, A, B and C. In a small number of subjects a B grade in that subject at GCSE may be required.

- b) A one year Level 2 course which leads to a BTEC Diploma [equivalent to 4 GCSEs]. This course has a work placement which is usually one day every two weeks and is studied with additional courses such as Essential Skills and resits in Mathematics and English if required. Students will be expected to attend Welsh Baccalaureate sessions in order to gain the Intermediate Diploma if this was not achieved in Year 11.

Successful completion of this course enables students to go on to an 'A' Level or BTEC Level 3 course the following year, either in school or at college.

The entry requirement for the Level 2 course is 5 GCSE grades C, D and E

Grades required	Year 12	Year 13
GCSE grades at C, D and E	Intermediate BTEC [Level 2]	BTEC Nationals [Level 3] or Advanced Level or Further education or employment
5 or more GCSE grades at A, B or C *	AS Level [Level 3]	A2/A Levels or Further Education or employment

"It is desirable but not essential to have gained a "B" grade at GCSE or equivalent to study some subjects at A Level.

Your first decision must be to choose the Learning Pathway you wish to follow, bearing in mind the GCSE grades you need to get. You will know your Global Grade. In addition, in the Year 11 Report you have recently received you will have found out what your teachers think you are capable of [your *targets*] and the level you are currently working at [your current grade]. Please read the report comments and grades carefully and ask yourself what you need to do to gain the grades you want in the Summer exams.

These pathways are the same whether you stay in school or go to college though the college also offers Foundation Level courses. Obviously there are advantages to both, and you need to consider the following before making your choice: -

- where can I best follow the combination of subjects I want?
- do I work best where the staff know me, or do I need a change?
- do I need a lot of support and encouragement, or do I prefer to be more independent?

This decision is a very personal one, and far too important to let it be influenced by what your friends are doing.

To find out what you need to know about the courses available in school you can do the following: -

- i) read this booklet very carefully at home or on the web at
www.milfordhavenschool.co.uk
- ii) ask your subject teachers about anything you do not understand
- iii) come to the Information Evening on Thursday 30th January with your parents and visit the subject presentations in which you are interested.

Information Evening is a great opportunity to find out what you need to know. You should not be committing yourself to actual choices at this stage.

Information on 'A' Levels

Many A Levels now consist of 4 Units although some still retain the 6 Units format. 2 Units are studied in Year 12, and 2 in Year 13.

At the end of Year 12 you must sit an exam called AS level.

AS level is graded A-E (F=Fail) and is a qualification in its own right.

At the end of Year 13 you sit another exam called A2.

A2 is not a qualification on its own.

To get a full 'A' level qualification you must take AS and A2.

'A' level is graded A-E (F=Fail).

Please note that AS Resits are no longer possible January. As things stand, one resit per AS or A2 module is permitted

All Advanced Level students will do the Welsh Baccalaureate qualification. At Advanced Level, the WBQ can be worth up to 120 UCAS points, the equivalent of an A grade at A Level. The WBQ was graded for the first time from 2013 and will continue in the same format in 2014 before major changes are introduced in 2015. **Students beginning the WBQ in 2014 will not be affected by the 2015 changes.**

The WBQ broadens the curriculum for students. It includes Essential and Wider Key Skills, Work Related Education, Community Participation, PSE, Wales, Europe and The World and an Individual Investigation, which is a 2,000 word report on a subject of personal interest to the student.

The WBQ is designed to prepare students for study at Higher Education Level and for employment.

How many subjects must I take?

Mostly students will study 4 options in their first year with a minimum of 3 options.

Many combinations are possible. Senior staff will help you to choose the best combination for you.

In this way everyone will have a qualification in at least 3 subjects, and many will have 4.

The final modules of A2 include a synoptic element, which means they will assess knowledge of the course as a whole, and students' understanding of the inter-relationship between different concepts.

The Welsh Baccalaureate Core will continue to be covered in Essential and Wider Key Skills classes, in other timetabled sessions and in activities students undertake outside of school.

Subjects

Intermediate Qualifications (BTEC)

BTEC Diploma in Workskills [provisional]

At present BTEC provision has not been finalised. It is expected that this will happen within two weeks. As soon as it is finalised the school will contact students and parents]

A Level and AS Level Courses

Art & Design	History
Biology	Information Technology – Cambridge Technicals
Chemistry	Mathematics
Design Technology	Music
Drama and Theatre Studies	Photography
Electronics	Physical Education
English	Physics
French	Religious Studies
Geography	Sociology
Health and Social Care	Welsh

To maximise opportunities for our students, the following additional subjects will be available in collaboration with Greenhill School, Tenby and Pembroke School.

Pembroke School

- Economics & Business
- Geology
- Media Studies
- BTEC Level 3 Business Studies
- Food Technology
- BTEC Sport Level 3 Nationals
- Health & Social Care Single & Double Award

Greenhill School

- Travel & Tourism
- Computer Science
- Further Mathematics

NB: It must be noted that in Year 12 courses will only run if there is a sufficient number opting for the subject. If there is not a sufficient number courses may run at a different centre. If numbers of students who wish to continue any course from Y12 into Year 13 should be low, the South Federation may put on Y13 provision in a different centre.

Options Process

Thursday January 30th Year 11 Information Evening
Monday February 10th Option Form return
Options Interviews begin Wednesday February 12th

Useful Websites:

Milford Haven School	www.milfordhavenschool.co.uk
Careers Wales	www.careerswales.com
WJEC	www.wjec.co.uk

ADVANCED LEVEL

WELSH BACCALAUREATE QUALIFICATION

SUBJECT:	WELSH BACCALAUREATE QUALIFICATION	AS ✓
EXAM BOARD:	WJEC	A2 ✓

The Welsh Baccalaureate Qualification (WBQ) Advanced Diploma programme is studied over a two year period by post-16 students. The WBQ provides students with a wide range of experiences that will equip them for life in the modern world. The WBQ comprises of Core studies and Option programmes. The WBQ has now been graded from a C to an A* grade at the end of the two years, taking into account the levels acquired for their Key Skills and Individual Investigation.

Options programme: AS and A2

Students undertake their Options programme through their AS and A2 studies achieving GCE qualifications at the end of Year 13.

Students must achieve at least two A2 levels with grades A-E in order to be awarded this part of the WBQ.

Core programme: AS and A2

The distinctive part of the WBQ is the Core whose components provide opportunities for students to develop and acquire evidence of attainment in the Essential Skills Wales and Wider Key Skills.

The components of the Core are:-

Essential Skills Wales, Wider Key Skills.

The development of Key Skills is embedded in each student's programme through discrete lessons and signposting in the Options. Students follow the six Key Skills programmes; Communication, Numeracy, ICT, Working with Others, Problem Solving and Improving own Learning and Performance.

Wales, Europe and the World (WEW).

This component provides opportunities for students to engage in a range of issues relating to contemporary Wales, the UK and the world. In addition students study a foreign language as part of the **Language Module** for WEW.

Work Related Education (WRE).

This component is divided into two elements – Work Experience for a week and a Team Enterprise activity.

The main purpose of the WRE component is to enable candidates to gain an insight into the world of work and to become more enterprising and confident by taking part in an enterprise activity.

Personal and Social education (PSE).

The PSE component provides opportunities for students to develop knowledge and skills in personal, social, sustainability and health matters. In addition students develop skills in **Community Participation** as part of this component.

Individual Investigation.

This requires the student to select an area of interest and take a high level of personal responsibility for the investigation. It provides an opportunity for students to demonstrate originality, initiative and reflection.

HOW THE WBQ IS ASSESSED	Assessment	Requirement for WBQ Advanced
<p>Options AS/A2 subjects</p>	<p>Subject specific Written/practical exams</p>	<p><u>Candidates must gain at least two A2 levels (grades A-E) in order to be awarded this part of the WBQ.</u></p>
<p>Core Essential Key Skills Wales and Wider Key Skills</p> <p>WEW } WRE } PSE }</p> <p>Diary Individual Investigation</p>	<p>Level 2/ 3 portfolio work. WJEC moderation.</p> <p>Completion of Key Issues for the Elements in each component.</p> <p>WJEC moderation WJEC moderation</p>	<p>Three Key Skills at level 3, the other three at level 2 or 3 (one at level 3 must be from the main Essential Skills Wales).</p> <p>Record in the Diary of activities undertaken for specified Key Issues.</p> <p>Must be completed to level 3 standard. Must be completed to level 3 standard.</p>

ADVANCED COURSES

SUBJECT:	ART and DESIGN	AS	✓
EXAM BOARD:	WJEC	A2	✓

Art is the ideal subject through which to develop an understanding and appreciation of the visual world. Students should be creative and have a real interest in art, craft and design in its historical context. Good personal motivation is vital in order to produce the quantity needed for the coursework and must include sketchbooks and written notes as evidence of enquiry, ideas and opinions. All students are encouraged to experiment with a variety of media in order to develop their practical skills through a range of 2D and 3D processes e.g. drawing, painting, sculpture, printmaking, textiles, graphics and 3D design.

The AS consists of:

Unit 1 Personal assignment / project which demonstrates different processes developed from personal starting points. This involves the study and analysis of the work of artists, craft workers and designers, an experimental approach to practical work and the development of ideas.

Unit 2 Controlled assignment set by examination board. Choice of question should demonstrate personal intentions during a continuous period of focused study, followed by a supervised and timed 8 hour exam to complete a final piece.

HOW THE AS IS ASSESSED	Written Exam Paper	Practical Exam	% Weighting of each element
ART1 - Personal assignment	N/A	No – Coursework. Internally assessed, Externally moderated	AS - 60% (120 marks) <u>A level 30%</u>
ART2 - Controlled assignment	N/A	Yes. Internally assessed, Externally moderated	AS - 40% (80 marks) <u>A level 20%</u>

The A2 consists of:

Unit 3 Personal investigation - Coursework Unit. Using the practical skills acquired in unit 1 and 2 students will choose a subject on which to concentrate, based around themes and subject matter developed from personal starting points. Students are encouraged to work on individual strengths and demonstrate their level of technical skill. Candidates must communicate their understanding of theoretical and aesthetic issues in a historical, social, artistic context. Relevant artists and designers should be included integrated with text.

Unit 4 Controlled assignment set by examination board. Respond to externally set stimulus through a period of focused study followed by a controlled test with 12 hours supervised time to complete a final piece.

HOW THE A2 IS ASSESSED	Written Exam Paper	Practical Exam	% Weighting of each element
ART3 - Personal assignment	N/A	No – Coursework. Internally assessed, externally moderated	60% (120 marks) <u>A level 30%</u>
ART4 – Controlled assignment	N/A	Yes. Internally assessed, Externally moderated	40% (80 marks) <i>A level 20%</i>

SUBJECT:	BIOLOGY	AS	✓
EXAM BOARD:	OCR	A2	✓

This is a qualification, which builds on the knowledge and understanding gained in the GCSE, and also introduces some other areas of Biology. We would expect students to have a good grade at GCSE (minimum of a CC, preferably BB), and good communication and mathematical skills. The course encompasses a wide variety of biological topics, including rapidly developing fields such as genetic engineering. It is an essential if you plan to study degree courses in Medicine, Biology, Environmental Science, Forensics, Dentistry, Zoology and Pharmacy. It is also useful for those students planning to work in all other aspects of healthcare. The course does require a great deal of home study and independent learning of new biological concepts. This is an interesting course for students who enjoy their Biology and who are prepared to work hard all year to achieve success.

The AS course consists of:

Cell, Exchange and Transport – This unit has three distinct but linked aspects of biology; the cell structure and function; the gaseous exchange process and breathing mechanism in humans. The final topic is a study of plant and animal transport systems.

Molecules, Food and Health, Biodiversity – involves; studying the structure and function of bio molecules; production of food, common diseases, immunity and discovering the causes of evolutionary biodiversity and species extinction.

Practical skills – This unit includes a series of practical tasks conducted under examination conditions and internally assessed. The students will have the opportunity to develop their practical skills throughout the teaching of the first two units.

Component	Exam Paper (All in June)	% Weighting
Cell, Exchange and Transport	1 hour	30%
Molecules, Biodiversity, Food and Health	1 hour 45 mins	50%
Practical skill in Biology 1	Internal assessed	20%

The weightings indicated in the AS syllabus will be halved if the candidate should decide to proceed with the A Level Course.

The A2 course consists of:

Communications, Homeostasis and Energy unit covers the transmission of messages around the human body by the nerve impulses and hormones (chemical messengers). The life processes of excretion, respiration and photosynthesis are also covered in this unit.

Control, Genomes and Environment unit is diverse, covering the following topics; Cellular Control; Biotechnology; Ecosystems and Sustainability and Responding to the Environment

Practical skills in Biology 2 – as in AS level the students' skills will develop through the teaching of the first two units. There will be opportunities to practice the skill required prior to the assessment,

Component	Exam Paper (All in June)	% Weighting
Communications, Homeostasis and Energy	1 hour	15%
Control, Genomes and Environment	1 hour 45 mins	25%
Practical skills in Biology 2	Internal assessed	10%

SUBJECT:	CHEMISTRY	AS ✓
EXAM BOARD:	OCR (Chemistry A)	A2 ✓

Everything is made of chemicals including us! Studying Chemistry helps us to understand and use this world of chemicals. The content at A level is clear and in a logical order to develop knowledge and understanding of the subject. There is a comprehensive coverage of all major topics with an emphasis on relevance to everyday life, green issues and economic awareness.

Before you start the course, you should have achieved at least one Grade B or above in GCSE Core or Additional Science and a Grade C or above in the other. It would also be of great benefit to you if you have a good GCSE in Maths.

With a qualification in Chemistry you could go on to further or higher Education, studying Chemistry, Chemical engineering or one of the other sciences. Chemistry is also very valuable for those who have an interest in working in a science-based industry such as material science, biotechnology, or the Petro-chemical industry (to name but a few). It is essential for the medical field, pharmacy and environmental science. Chemistry is also a well-respected subject in its own right and suitable for entry into a wide range of professions. Chemistry is held in high regard by all Further Education establishments, a useful card to hold!!

The AS course consists of:

1. Atoms, Bonds and Groups. This covers Atoms and reactions, Electrons bonding and structure, The Periodic Table.
2. Chains, Energy and Resources looks at carbon based compounds (Organic Chemistry and Energetics)
3. Practical Skills in Chemistry 1. (3 Internally assessed practical tasks)

HOW THE AS IS ASSESSED	Written Exam Paper	Internal Assessment	% Weighting of each element
F321. Atoms, Bonds and Groups	✓		30%
F322. Chains, Energy and Resources	✓		50%
F323. Practical Skills in Chemistry 1		✓	20%

Please note that the weightings indicated in the AS syllabus will be halved if the candidate should decide to proceed with the A Level Course.

The A2 course consists of:

4. Rings, Polymers and Analysis – The study of Acids, Amines and Ring Carbon compounds
5. Equilibria, Energetics and Elements – Covering Rates of reaction, pH and the Transition elements.
6. Practical Skills in Chemistry 2. (3 Internally assessed practical tasks)

HOW THE A2 IS ASSESSED	Written Exam Paper	Internal Assessment	% Weighting of each element
F324. Rings, Polymers and Analysis	✓		15%
F325. Equilibria, Energetics and Elements	✓		25%
F326. Practical Skills in Chemistry 2		✓	10%

SUBJECT:	<u>DESIGN TECHNOLOGY</u>	AS	✓
	PRODUCT DESIGN		
EXAM BOARD:	WJEC	A2	✓

The course is essentially about **Designing & Making** by identifying and solving real problems and is expected to have a broad appeal to pupils. Students will be able to work in a wide range of materials relating to their personal interests and future careers. It is suitable for both boys and girls and experience of this course should prove valuable to the student's future career.

The examinations at both levels AS & A2 will consist of a range of questions based upon the topics mentioned within the content of the course. The AS paper will consist of two sections, section A will require short answers (5 questions from 8.) and section B will be an open-ended essay type (1 question from 3). The A2 paper has 3 sections, section A&B will require short answers (3 from 5) while section C will require open-ended essay type questions (2 from 5).

The AS course consists of

Theory assignments based upon past papers and questions to test & develop the student's knowledge & understanding. Design & Make Task on lighting design for a store such as Ikea.

These are externally assessed by a visiting examiner in the final term of Year 12.

The areas to be studied are:- Designing & Innovation; Product Analysis; Materials & Components & Industrial & Commercial Practice.

HOW THE AS IS ASSESSED	Written Exam Paper	Practical Exam	% Weighting of each element
DT 1 PRODUCT DESIGN EXAMINATION	YES 2hrs	-	40%
DT 2 DESIGN & MAKE TASK	-	YES 60hrs approx.	60%

Please note that the weightings indicated in the AS syllabus will be halved if the candidate should decide to proceed with the A2 Level Course.

The A2 course consists of:

Theory assignments based upon past papers and questions to test & further develop the students' knowledge & understanding.

A final design project chosen from a list of EIGHT titles set by the examination Board. The design folder makes up half the unit of work, while the other half is made up of the practical outcome.

These are externally assessed by a visiting examiner in the final term of the course

The areas to be studied are:- Designing & Innovation; Product Analysis; Materials & Components & Industrial & Commercial Practice; Human Responsibility; Public Interaction; Processes & Production Systems & Control

HOW THE A2 IS ASSESSED	Written Exam Paper	Practical Exam	% Weighting of each element
DT 3 PRODUCT DESIGN EXAMINATION	YES 2hrs 30mins	-	20%
DT 4 MAJOR PROJECT – DESIGNING & MAKING	-	YES 60hrs approx.	30%

SUBJECT:	DRAMA AND THEATRE STUDIES	AS	✓
EXAM BOARD:	AQA	A2	✓

The course has both academic and practical elements and is a well-established academic subject, recognised by Universities and Colleges.

A good standard of written English is required ideally and a desire to create dynamic pieces of live theatre based on text and devised work. GCSE Drama is not a requirement but group work, initiative and flexibility are integral to the course. It is expected that students show an active interest in the performing arts and experience as much live theatre as possible.

The AS course consists of:

Unit 1 DRAM1 - Live Theatre Production Seen and Prescribed Play: 1hr 30 minute written examination based on a prescribed play and response to a live theatre performance.

Unit 2 DRAM2 – Presentation of an Extract from a Play: Live performance by a group from and published play along with supporting notes.

HOW THE AS IS ASSESSED	Written Exam Paper	Practical Exam	% Weighting of each element
DRAM1	✓		30%
DRAM2		✓	20%

The A2 course consists of:

Unit 3 DRAM3 – Further Prescribed Plays Including Pre-Twentieth Century (The study of two plays): 2hr examination based on the study of two further plays.

Unit 4 DRAM4 – Presentation of Devised Drama: Live performance of a devised group piece of theatre supported by preparatory and development notes and supporting notes.

HOW THE A2 IS ASSESSED	Written Exam Paper	Practical Exam	% Weighting of each element
DRAM3	✓		30%
DRAM4		✓	20%

SUBJECT:	ELECTRONICS	AS	✓
EXAM BOARD:	WJEC	A2	✓

Electronics is a new subject to most students, however there is no need to have previously studied the subject. Notes are supplied in the form of chapters, which students study in lessons. The chapters include the theory and a set of practical exercises. There are four lessons per week during which some aspects of the course will be looked at in greater depth and problem-solving exercises will be set. The lessons also give an opportunity for the specific problems of individual students to be dealt with. Although the course content may seem full of strange terminology, the course is sequential in nature and the students build on the skills and knowledge they acquire.

The course places an emphasis on both computer-simulated projects and hand built circuits. In practical work all students will acquire skills in building and testing circuits, using test instruments and circuit design and development.

The course will provide a firm foundation for students wishing to study to Degree or HND level in Electronics, Microelectronics, Robotics, Computer Science, Communication Technology, or related Engineering courses. It will also provide an excellent basis for students who wish to enter directly into employment, such as an electrical apprenticeship or TV and radio repair.

Students wishing to follow an AS or Advanced level course in Electronics should have achieved grade C or above in GCSE Mathematics and GCSE Science (or GCSE Electronics). It is **not** necessary for students to have studied a course in Electronics previously.

The AS course consists of three modules:

ET1: Analogue and digital logic systems; logic gates and logic system design, Boolean algebra (an algebra system based on the rules of logic), bistables, flip-flops, counters and operational amplifiers.

ET2: Circuits and components; RC networks, timing circuits, diodes, simple power supplies and switching circuits.

ET3: Programmed control systems, ladder logic, microcontrollers and programme procedures.

HOW THE AS IS ASSESSED	Written Exam Paper	Practical Exam	% Weighting of each element
MODULE ET1	YES, 1.25 Hrs		35
MODULE ET2	YES, 1.25 Hrs		35
MODULE ET3		YES Internal assessment	30

Please note that the weightings indicated in the AS syllabus will be halved if the candidate should decide to proceed with the A Level Course.

The A2 course consists of a further three modules:

ET4: Communication systems; AC theory, radio receivers, optic fibres, shift registers, network and internetwork communications.

ET5: System applications; counting, instruments, audio, and high power switching systems.

ET6: Design project: to design, realise and test an electronic system.

HOW THE A2 IS ASSESSED	Written Exam Paper	Practical Exam	% Weighting of each element
MODULE ET4	YES, 1.0 Hrs		15
MODULE ET5	YES, 1.5 Hrs		20
MODULE ET6		YES	15

SUBJECT:	ENGLISH LITERATURE	AS	✓
EXAM BOARD:	WJEC	A2	✓

What will you learn on this course?

The course will enable you to:

- Develop your interest and enjoyment in literature by reading widely
- Gain an understanding of the traditions of English Literature
- Gain an understanding of literature from outside the UK
- Communicate your response to a wide variety of texts and respond to texts of different types and from different periods
- Make your own informed judgements on literary texts
- Gain an understanding of cultural, historical and other influences on texts
- Gain experience of the Key Skills of Communication, ICT, Improving Your Own Learning and Performance, and Working with Others.

Students studying AS/A Level English Literature have a wide range of career opportunities open to them, e.g. in law, media, journalism, etc.

The AS course consists of:

1. LT 1 – Poetry and Drama 1 (e.g. Carol Ann Duffy, Pugh, Hare)
2. LT 2 – Internal Assessment consisting of prose study and creative reading

HOW THE AS IS ASSESSED ?	Written Exam Paper	Practical Exam	% Weighting of each element
LT 1	2½ hours (open text)	-	60% (30% of A Level)
LT 2	-	<u>Prose Study</u> <u>1800 – 1945</u> Two texts – one piece of extended writing <u>Creative Reading</u> One text – Creative writing in response to text and commentary	40% AS (20% of A Level)

Please note that the weightings indicated in the AS syllabus will be halved if the candidate should decide to proceed with the A Level Course.

The A2 course consists of:

LT3 – Internal Assessment - Period and Genre Study

LT4 - Poetry and Drama - (e.g. Chaucer and Shakespeare)

HOW THE A2 IS ASSESSED ?	Written Exam Paper	Practical Exam	% Weighting of each element
LT3		<u>Period and Genre Study</u> 3 texts – One piece of extended writing from different periods and genres including poetry and prose	40% 20% of A Level
LT4	2½ hours Closed Text	-	60% 30% of A Level

SUBJECT:	FRENCH	AS	✓
EXAM BOARD:	WJEC	A2	✓

There is no doubt that an 'AS/A2' French/Spanish will provide the student with an excellent opportunity for further development at university and later on in a variety of careers, including management. On the continent knowing another language is a condition for top management posts. 48% of all firms are recruiting staff for their foreign language skills. An 'A/AS' in a foreign language will therefore ensure that no management doors are closed in international British Industries.

Other careers open to linguists are translating and interpreting in business, diplomatic and political contexts. Bilingual secretaries, bilingual personal assistants and bilingual business managers command significantly higher wages. Students who want to study law and business studies are encouraged to take up a language to enable them to work in the European context.

The AS course consists of the following linguistic skills:

- Listening comprehension
- Speaking
- Reading comprehension
- Writing

These skills are practised by dealing with topics grouped into 2 areas:

- Leisure and lifestyles
- The individual and society

Topic work is based on modern and up to date resources and includes discussions on contemporary and controversial issues.

HOW THE AS IS ASSESSED	Written Exam Paper	Practical Exam	% Weighting of each element
Assessment 1		Oral Exam	40% of AS (20% of A Level)
Assessment 2	Listening, Reading and Writing		60% of AS (30% of A Level)

Please note that the weightings indicated in the AS syllabus will be halved if the candidate should decide to proceed with the A Level Course.

The A2 course consists of the same linguistic skills as AS.

For A2, pupils must complete the 'guided studies' option, which consists either of world of cinema, world of literature or regions of France.

The skills are practised through 2 topic areas:

- Environmental issues
- Social and political issues

HOW THE A2 IS ASSESSED	Written Exam Paper	Practical Exam	% Weighting of each element
Assessment 3		Oral Exam	40% of A2 (20% of full A Level)
Assessment 4	Listening, Reading and Writing		60% of A2 (30% of full A Level)

SUBJECT:	GEOGRAPHY	AS	✓
EXAM BOARD:	WJEC	A2	✓

Geography is a dynamic subject that helps you to understand an ever changing and interconnected world. It is always topical and relevant and teaches you to appreciate the relationships between people and their environment at local, regional and global levels. You will develop a range of skills that will be useful long after you have left school. These include working with others, investigating issues, solving problems, using ICT and collecting and measuring data. Field trips are a key part of the course and add a practical dimension to both units. Fieldwork introduces new skills such as surveying techniques, statistics and the use of satellite imagery and other Internet resources. Geography is a subject highly valued by educational establishments and employers as it encourages independent learning, skill acquisition and an interest in every aspect of the world around us.

The AS course consists of two equally weighted units.

Unit G1 looks at Changing Physical Environments, for example people and their relationship with the physical world including climate and tectonic change.

Unit G2 deals with Changing Human Environments, for example how populations and urban areas are dynamic.

HOW THE AS IS ASSESSED	Written Exam Paper	Practical Exam	% Weighting Of each element
Unit G1	*		50%
Unit G2	*		50%

Please note that the weightings indicated in the AS syllabus will be halved if the candidate should decide to proceed with the A Level Course.

The A 2 course consists of two units.

Unit G3 examines contemporary Geographical themes and research, for example how globalisation has made the world inter connected and how people cope with physical hazards and extreme climates.

Unit G4 examines Sustainable Development, for example how can we meet the needs of today without compromising the future?

HOW THE A2 IS ASSESSED	Written Exam Paper	Practical Exam	% Weighting of each element
Unit G3	*		30%
Unit G4	*		20%

SUBJECT:	HEALTH AND SOCIAL CARE (SINGLE AWARD)	AS ✓
EXAM BOARD:	AQA	A2 ✓

Health and Social Care is a subject that helps you achieve many of the skills needed whatever career you choose to follow. These include communication, ICT, independent research, formulation and analysis of interviews and questionnaires and caring skills. An investigative and problem solving approach is taken while studying this subject and you will be encouraged to apply knowledge, understanding and skills. The content of the course has a wide application in all types of business. It is now a subject that is valued very highly by universities and employers, no longer considered the easy option! It can lead to many F.E. courses and careers, not just those traditionally related to Health and Social Care. The single award is useful for everyone, but those wishing to follow a career in the health, social care or early years sectors should consider the double option. **This subject is available to everyone, not just those who have the GCSE.**

Typical Health and Social Care jobs include – Probation Officer, Physiotherapist, Dietician, Occupational Therapist, Teacher (especially early years), Paramedic, Speech Therapist, Youth Worker, Midwife, Nursery Worker, Manager, Social Worker, Counsellor etc.

The AS course consists of 2 units

Unit 1. Effective Care and communication (compulsory) coursework portfolio

And either

Unit 2. Health Conditions and Patient Care Pathways (examined)

or

Unit 3. Health, Illness and Disease (examined)

HOW THE AS IS ASSESSED	Written Exam Paper	Practical Exam	% Weighting of each element
Unit 1		Portfolio	50%
Unit 2 or 3	2 hours	Exam	50%

Please note that the weightings indicated in the AS syllabus will be halved if the candidate should decide to proceed with the A Level Course.

The A 2 course consists of:

Unit 6 Working in Health and Social Care (compulsory) coursework portfolio

And 1 unit from

Unit 5. Learning and Development

Unit 7. Food and Fitness

Unit 10. Diagnosis and Preventative Health Strategies

HOW THE A2 IS ASSESSED	Written Exam Paper	Practical Exam	% Weighting of each element
Unit 6		Portfolio	50%
Unit 5, 7 or 10	2 Hours		50%

SUBJECT:	HISTORY	AS	✓
EXAM BOARD:	WJEC	A2	✓

“If we do not remember the past we are condemned to repeat it”.

This message on a Dachau concentration camp wall, reminds us of the links between the past and the images we see on television every day. 6th form History not only provides a flexible qualification, favoured by employers and universities, but also gives you the chance to develop key skills and build the confidence you need to express your ideas to the best of your ability. History gives you the chance to find the links between the past and your own time – to understand the world that you are going to shape in your future.

If you like to question. If you like to look below the surface of issues, then History is the option for you!

The AS course will cover

- Aspects of the history of Wales and England 1880-1980 considering the diverse nature of society such as the impact of war, the changing role of women and the lives of the working classes.
- A study of a range of historical topics and problems relating to Nazi Germany

HOW THE AS IS ASSESSED	Written Exam Paper	Practical Exam	% Weighting of each element
Unit HY1	1 paper		30
Unit HY2	1 paper		20

A2 History builds on the skills that you have developed in Year 12.

- A study of the changes and consequences of the First World War, as well as an overview of the nature of change over the whole period, right up to the modern day. With topical issues like the effects of economic crisis and the depression and the impact of war, History is relevant to today’s society.
- A Coursework study on Nazi Germany.
- We look at our subjects from a political, social, economic, religious and cultural point of view (Something for everyone!)

HOW THE A2 IS ASSESSED	Written Exam Paper	Practical Exam	% Weighting of each element
Unit HY3	10 week project	COURSEWORK	20
Unit HY4	2 hours 30 mins		30

SUBJECT:	ICT (OCR Level 3 Cambridge Technicals in IT)	AS ✓
EXAM BOARD:	OCR	A2 ✓

This ICT course is industry-relevant and geared to key sector requirements. It gives students a more in-depth understanding of ICT in the modern workplace, giving insights into ICT's role in specialist careers. As an alternative to an Applied GCE, or similar exam-based course, it provides on-going learning and assessment of the practical skills and knowledge required to succeed in ICT-related careers.

The OCR Level 3 Cambridge Technicals in IT consists of **six units** of work and has the equivalent point score to a single A Level. The qualification is assessed as Pass, Merit, Distinction or Distinction*. A Pass has the UCAS points equivalent of a grade E (40), a Merit equivalent to a C grade (80), a Distinction the same points value as a GCE grade A (120) and a Distinction* the equivalent of an A* at GCE (140).

The qualification is 100% coursework which is assessed by teaching staff, and sampled by a visiting moderator. All coursework is printed and held in folders. **There are no external examinations.**

Every unit of work will require students to conduct research, carry out practical tasks and write extended pieces of text to explain their findings. It is the quality of the written work that decides the final grade of each candidate. Due to the nature of the course it is strongly recommended that students have gained at least 2 GCSE grades in ICT at a high level, and at least a C grade in English Language at GCSE, if they are to be successful.

The Lower Sixth course consists of (AS units):

Communication and employable skills for IT

This unit allows students to understand what an employer expects of an individual and how to communicate effectively while developing their own personal development needs.

Information systems

This unit will ensure that students have a greater understanding of how organisations use information internally and externally. The skills gained by completing this unit will give students knowledge of the functionality of information and the ability to produce management systems.

Interactive media authoring*

This unit focuses primarily on the creation of interactive media products for a range of platforms, such as apps for mobiles or CD/DVD ROM. There is a range of authoring tools available to use in their production and the creation of its assets. Interactivity can be included in the form of quizzes and games, using scripting languages such as Lingo or Action Script.

The Upper Sixth course consists of (A2 units):

Spreadsheet modelling*

The aim of this unit is to help students understand how spreadsheets can be used to solve complex problems. They will also learn how to automate and customise their spreadsheet models. Finally, they will learn how to test and create user and technical documentation. The unit will provide students with the skills to enable them to create and use a complex spreadsheet model.

2D animation production*

This unit allows students to develop skills in producing 2D animations using either traditional or digital methods or a combination of the two. Through this unit, students will gain an understanding of how animation is carried out in the wider world for entertainment and for commercial purposes.

Developing computer games*

This unit provides students with an understanding about different computer games and of the social impact of computer games and enables them to design, develop and test computer games. This unit will give a good insight into working within the computer gaming industry.

* subject to change depending on the availability of resources

SUBJECT:	MATHEMATICS	AS	✓
EXAM BOARD:	WJEC	A2	✓

If you enjoy Maths and feel confident with the work you have met so far at GCSE, then you should seriously consider Maths AS or A-level. It is a demanding and challenging subject but it can be an extremely rewarding one if you are prepared to put in time and effort.

Maths has wide applications in industry, business, finance, science, technology and many others. Maths qualifications can help you towards a future career in these areas and it is also a useful support for many university courses, which increasingly can involve statistics and other applied modules. There is currently a national shortage of qualified mathematicians - an 'A' Level in Mathematics gives you flexibility in what you do in the future.

You can study Maths at AS-level for a single year, or at A-level over two years.

Syllabus followed is WJEC. Detailed information can be found on the WJEC website – www.wjec.co.uk

The AS course consists of:

C1 – Pure Mathematics: Coordinate geometry of straight lines, algebra of polynomials, quadratic functions, binomial expansion, differentiation.

C2 – Pure Mathematics: Sequences, arithmetic & geometric progressions, logarithms, coordinate geometry of the circle, trigonometry, integration.

With

S1 – Statistics: Probability, discrete & continuous probability distributions, mean, variance & standard deviation, Binomial & Poisson distributions, median & quartiles.

HOW THE AS IS ASSESSED	Written Exam Paper	Practical Exam	% Weighting of each element
C1 – Pure Mathematics	1 ½ hours	none	33.3 %
C2 – Pure Mathematics	1 ½ hours	none	33.3 %
S1 – Statistics	1 ½ hours	none	33.3 %

Please note that the weightings indicated in the AS syllabus will be halved if the candidate should decide to proceed with the A Level Course.

The A2 course consists of:

C3 – Pure Mathematics: Trigonometry, functions, differentiation & integration, numerical methods.

C4 – Pure Mathematics: Binomial series, trigonometry, Cartesian & parametric equations, differential equations, volumes of revolution, vectors.

With

MI – Mechanics: Rectilinear motion, Newton's Laws of Motion, friction, momentum & impulse, statics, centre of gravity.

HOW THE A2 IS ASSESSED	Written Exam Paper	Practical Exam	% Weighting of each element
C3 – Pure Mathematics	1 ½ hours	none	16.6%
C4 – Pure Mathematics	1 ½ hours	none	16.6%
M1 – Mechanics	1 ½ hours	none	16.6%

SUBJECT:	MUSIC	AS	✓
EXAM BOARD:	WJEC	A2	✓

The course extends and develops the skills of **Listening / Appraising, Composing and Performing**. It will broaden and intensify the pupil's musical experience and provide an opportunity to develop their appreciation of, and participation in, music. Pupils must be interested in extending their experience and understanding of music. **This includes a commitment to extracurricular groups.** Music is open to pupils who have studied GCSE or those who have passed Grade 4 in instrumental and theory examinations. For both AS and A Level, some piano/keyboard skills are useful.

How will music benefit me in the future?

Obviously if you want to be a performer or based in the world of music, A level is a must. Studying music to A level is essential for those of you who want to be secondary school music teachers and is an enormous benefit, as is AS, to those who want to teach at primary level. Also Universities and general employers are aware of the academic and interpersonal skills that music develops and look favourably on those who study music at A/AS level. It also shows that you have an aesthetic knowledge and appreciation of the arts.

The AS course consists of

A study of music from two different areas of music taken from the Western Classical Tradition and Jazz, Rock and Pop. By studying set works from within chosen areas of study, pupils will gain a greater depth and breadth of understanding musical styles.

Pupils will also be encouraged to develop their own compositional style and have access to music technology. Pupils will also need to perform as a soloist or in an ensemble or a combination of both. The composition and performances will relate to the set works studied.

HOW THE AS IS ASSESSED	Written Exam Paper	Practical Exam	% Weighting of each element
Unit 1 Performing		8 – 10 minutes	30%
Unit 2 Composing	Coursework Folio		30%
Unit 3 Listening & Appraising	Listening Exam		40%

Please note that the weightings indicated in the AS syllabus will be halved if the candidate should decide to proceed with the A Level Course.

The A 2 course:

This year focuses on music of the 20th and 21st Centuries. This will be done through performance, composition, analysis, listening and research. As at AS level, performances and compositions will relate to this. Pupils must also do an additional specialism worth 10% - depending on their strength – either longer performances, an additional composition or an additional written exam on composers/set works.

HOW THE A2 IS ASSESSED	Written Exam Paper	Practical Exam	% Weighting of each element
Unit 1 Performing		10 -12 minutes	30% (40%)
Unit 2 Composition	Harmony Exam OR Coursework		30% (40%)
Unit 3 Listening & Appraising	Listening Exam		30% (40%)

SUBJECT:	PHOTOGRAPHY - Lens and light based media	AS	✓
EXAM BOARD:	WJEC	A2	✓

This course gives students the opportunity to develop an understanding of photography in a range of contexts, from the traditional use of cameras and darkroom techniques to other lens based media such as digital and moving images. Students are encouraged to develop their own ideas and must have an interest in photography in its historical and contemporary context. They will be expected to produce a journal with images and written notes as evidence of their enquiry into visual and other sources. The school provides basic equipment and chemicals but it is important to note all students should have access to the use of their own SLR and/or digital camera.

The AS consists of:

Unit 1 Personal assignment / project which demonstrates different processes developed from personal starting points. This involves the study and analysis of ideas of the work of other artists/photographers, and an experimental approach to practical work and development of ideas.

Unit 2 Controlled assignment set by examination board. Choice of question should demonstrate personal intentions during continuous period of focused study, followed by supervised and timed 8 hours to complete final piece.

HOW THE AS IS ASSESSED	Written Exam Paper	Practical Exam	% Weighting of each element
ART1 - Personal assignment	N/A	<u>No –Coursework.</u> Internally assessed, Externally moderated	AS - 60% (120 marks) <u>A level 30%</u>
ART2 Controlled assignment	N/A	Yes. Internally assessed, Externally moderated	AS - 40% (80 marks) <u>A level 20%</u>

The A2 consists of:

Unit 3 Personal investigation - Coursework Unit. Using the practical skills acquired in unit 1 and 2 students will choose a subject on which to concentrate, based around themes and subject matter developed from personal starting points. Students are encouraged to work on individual strengths and demonstrate their level of technical skills. Candidates must communicate their understanding of theoretical issues, photographers, artists, designers and individual opinions through integrated images and text.

Unit 4 Controlled assignment set by examination board. Students respond to externally set stimulus through a period of focused study, followed by a controlled test with 12 hours supervised time to complete final piece.

HOW THE A2 IS ASSESSED	Written Exam Paper	Practical Exam	% Weighting of each element
ART3 - Personal assignment	N/A	No - Coursework & Dissertation. Internally assessed, Externally moderated.	60% (120 marks) <u>A level 30%</u>
ART4 – Controlled assignment	N/A	Yes. Internally assessed, Externally moderated.	40% (80 marks) A level 20%

SUBJECT:	PHYSICAL EDUCATION	AS	✓
EXAM BOARD:	OCR	A2	✓

This course is for students with a genuine interest in sport, and who are considering a career in the field of

- Coaching
- Teaching Physical Education
- Sports medicine
- Leisure centre management

Whilst the subject is based around a practical area the course is **essentially** a theoretical course.

The AS course consists of:

Unit G451	Anatomy and Physiology Acquiring of Movement Skills Contemporary Studies in Physical Education
Unit G452	Acquiring, Developing and Evaluating Practical Skills

HOW THE AS IS ASSESSED	Written Exam Paper	Practical	% Weighting of each element
Unit G451	✓	✗	60%
Unit G452	Practical and Oral Exam	✓	40%

Please note that the weightings indicated in the AS syllabus will be halved if the candidate should decide to proceed with the A Level Course.

The A 2 course consists of:

Unit G453	Historical Studies in Physical Education Psychology of Sport Performance Exercise Physiology
Unit G454	Critical Evaluation of Performance through Observation and Application of Skill in 1 Practical Area

HOW THE A2 IS ASSESSED	Written Exam Paper	Practical	% Weighting of each element
Unit G453	✓	✗	35%
Unit G454	Practical and Oral Exam	✓	15%

SUBJECT:	PHYSICS	AS	✓
EXAM BOARD:	WJEC	A2	✓

If you have enjoyed Physics at KS4, have a B or better at GCSE Science and a B in Mathematics, are curious about matter and the Universe around you, then this course may be for you. The physics course teaches students about fundamental physical concepts and about physics in everyday life and technological settings. This is a traditional Physics course that prepares students to work independently to solve problems and to give a solid foundation for further study. There is a high emphasis on practical work and how it relates to theory. Most engineering courses require Physics A level. Physics graduates are in high demand in all areas of employment because of their analytical skills.

The AS course consists of two units which have a written exam and a third unit which is a practical exam. This is assessed internally.

Unit PH1: Motion, Energy and Charge. This is the study of Mechanical systems and Electrical circuits.

Unit PH2: Waves and Particles, is the study of waves, quantum physics, photons and particles.

Unit PH3: Practical Physics. Experimental tasks, performed under controlled conditions, based upon experimental techniques developed in the AS course.

HOW THE AS IS ASSESSED	Written Exam Paper	% Weighting of each element
Unit PH1: Motion, Energy and Charge	1 hour 15 min	40
Unit PH2: Waves and Particles	1 hour 15 min	40
Unit PH3: Practical Physics	-	20

Please note that the weightings indicated in the AS syllabus will be halved if the candidate should decide to proceed with the A Level Course.

The **A2** course consists of:

Unit PH4: Oscillations & Fields, The Unit is built around a core of; **Mechanics:** momentum, circular motion, oscillations. **Matter:** molecular kinetic theory, internal energy. **Fields:** force fields

Unit PH5: Electromagnetism, Nuclei and Options consist of Electrical circuits: capacitance. Nuclear Physics: nuclear decay, nuclear energy. Fields: B-fields, flux and electromagnetic induction. In addition there is an optional study unit

Unit PH6: Experimental Physics. An experimental task and a data-analysis task performed under controlled conditions, both synoptic in nature.

HOW THE A2 IS ASSESSED	Written Exam Paper	% Weighting of each element
Unit PH4: Oscillations & Fields	1 hour 15 min	18
Unit PH5: Electromagnetism, Nuclei and Options	1 hour 45 min	22
Unit PH6: Experimental Physics	-	10

SUBJECT:	RELIGIOUS STUDIES	AS	✓
EXAM BOARD:	WJEC	A2	✓

The course may be followed by any candidate irrespective of personal belief, gender, religious or cultural background. This is an interesting and challenging course of study in which students will consider the moral values and attitudes of individuals, faith, Buddhism and contemporary society. They will develop the ability to make responsible judgements on significant moral teachings and contemporary issues.

Many professions such as the Law, Journalism, Banking, Medicine and the Armed Forces require consideration of ethical issues, and students studying these subjects are given the analytical skills which will be of benefit in their later careers.

SUMMARY OF ASSESSMENT

The specification is divided into a total of 4 units, 2 AS units, and 2 A2 units.

Within each of units 1-3 there are options, of which we study two of the following for an AS qualification.

Religion in Contemporary Society

Eastern Religions (Buddhism)

RS1 25% 1 ¼ hour Written Paper 90 marks 100 ums

Discovering Religious Studies (1)

Selected option 1

TWO STRUCTURED ESSAY QUESTIONS OUT OF FOUR

RS2 25% 1 ¼ hour Written Paper 90 marks 100ums

Discovering Religious Studies (2)

Selected option 2

TWO STRUCTURED ESSAY QUESTIONS OUT OF FOUR

The examination papers for RS1 and RS2 are identical, but candidates must cash in results for two units with different titles.

A level (the above plus 2 more units)

RS3 25% 1 ¾ hour Written Paper 100 marks 100 ums

Studies in Religion

1 of the options chosen above at a higher level

TWO STRUCTURED ESSAY QUESTIONS OUT OF FOUR

RS4 Compulsory 25% 1 ¾ hour Written Paper 75 marks 100 ums

Religion and Human Experience

3 topics pre-released in January of the year of the examination

Candidates answer 1 structured question on

Life, Death and Life after Death

Brief review of contents

Buddhism Life of the Buddha, his significance, Buddhist Life Style, and some important practices (AS).

Contemporary Society Religion and contemporary issues, religion and film, in the community, and the individual. Religion and T.V. Religion and medical issues AS/A2.

Religion and human experience (A2)

SUBJECT:	SOCIOLOGY	AS	✓
EXAM BOARD:	WJEC	A2	✓

Have you ever wondered why you think and act the way you do?
 Have you ever wondered why people around you behave and think differently to you?
 If so, you will enjoy Sociology.

Sociologists study human behaviour and how it is affected by the world in which we are brought up and by the patterns of social behaviour to which we are exposed. It helps us to understand not only modern British society, but also how that differs from other societies world-wide.

The AS course consists of

1. An introductory core that focuses on how we acquire culture and the main theories/key concepts of Sociology
2. A study of the family
3. A core theme based on research skills
4. The role and function of education

HOW THE AS IS ASSESSED	Written Exam Paper	% Weighting of each element
Unit 1 Acquiring Culture	1 hour	40% (20%)
Unit 2 Understanding Culture	1 hour 30 mins	60% (30%)

Please note that the weightings indicated in the AS syllabus will be halved if the candidate should decide to proceed with the A Level Course.

The A2 course consists of:

- 1 A study of the effects of crime and deviance and on our society
- 2 Research Methods and Design
- 3 Social Inequality in contemporary Britain

HOW THE A2 IS ASSESSED	Written Exam Paper	% Weighting of each element
Unit 3 Understanding Power and Control	1 hour 30 mins	20%
Unit 4 Research Methods Social Inequality	2 hours	30%

SUBJECT:	CYMRAEG / WELSH	AS	✓
EXAM BOARD:	WJEC	A2	✓

The AS course is available to students who have achieved a good C grade, or above, in their Welsh (2nd language) GCSE at Full Course or an A on the Short Course.

The course aims to develop oral proficiency, creating confidence and fluency. Comprehension of the language is broadened by studying several types of written forms, varying from newspaper and magazine articles to popular light literature and set literary texts. Opportunity is given to consider the impact of the Welsh media, including the study of television, film and radio.

Students are able to gain experience of using the language by attending seminars at universities, participating in courses provided by the Urdd and Nant Gwrtheyrn Language Centre, by experiencing live theatre productions, helping on the Year 7 Llangrannog trip and attending social events. Guest speakers are invited to school whenever possible.

The A level course aims to broaden the students' horizons further, making them aware of the possibilities of the language, and to appreciate the culture of which the language is an integral part.

The AS course consists of three compulsory units:

1. **Oracy and Film- including an in-depth study of the film 'Hedd Wyn'**
2. **A written coursework project**
3. **Use of Language and Poetry (7 poems to study)**

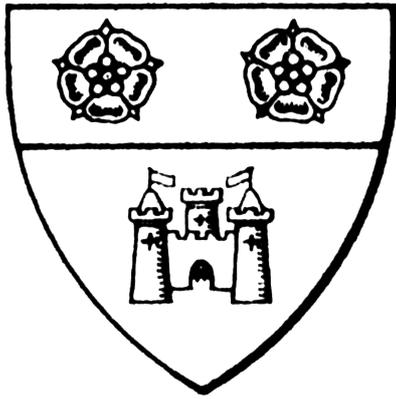
HOW THE AS IS ASSESSED	Written Exam Paper	Oral Exam	% Weighting of each element
Unit 1 (CA1)		* approx. ½ hour	40% (20%)
Unit 2 (CA2)	Written COURSEWORK		30% (15%)
Unit 3 (CA3)	* 2 hours		30% (15%)

Please note that the weightings indicated in the AS syllabus will be halved if the candidate should decide to proceed with the A Level Course.

The A 2 course consists of 3 compulsory units:

1. **Oracy and Drama – including an in-depth study of the drama 'Siwan'**
2. **Short Story and Translation (4 short stories to study)**
3. **Use of Language and the Appreciation of Poetry.**

HOW THE A2 IS ASSESSED	Written Exam Paper	Oral Exam	% Weighting of each element
Unit 1 (CA4)		* approx. ¾ hour	17.5%
Unit 2 (CA5)	* 1 ¾ hours		15%
Unit 3 (CA6)	* 1 ¾ hours		17.5%



SOUTH FEDERATION SUBJECTS OFFERED IN PEMBROKE AND GREENHILL SCHOOLS

Greenhill School - Tenby

Computer Science
Further Mathematics
Travel & Tourism

Bush School - Pembroke

BTEC Business
Economics & Business
Geology
Media Studies
Food Technology
BTEC Sport

COMPUTER SCIENCE

There has never been a better time to be involved with Computer Science. Exciting new developments such as DNA computing and quantum may solve problems that have proved intractable with conventional computing, problems such as understanding the mind. To comprehend these challenges and perhaps make a contribution you will need to know the principles of computing.

GENERAL INFORMATION

The specification has been designed for students who wish to go on to higher education courses or employment where knowledge of Computer Science would be beneficial. One can study Computer Science and go on to a career in medicine, law, business, politics or any type of science. Several subject areas of the previous WJEC GCE Computer Science specification have been retained, with changes made to bring the content up to date as well as to shift the emphasis in the direction of Computer Science and Computation.

There is a clear distinction between this specification and the ICT course. It has been written to avoid any overlap of subject content.

The course is not about learning to use tools or just training in a programming language. Instead the emphasis is on computational thinking. Computational thinking is a kind of reasoning used by both humans and machines. Thinking computationally is an important life skill. Thinking computationally means abstraction and decomposition. The study of computation is about what can be computed and how to compute it. Computer Science involves questions that have the potential to change how we view the world. For example, we may be computing with DNA at some stage in the future, with computer circuits made of genes. This leads to the question, does the natural world 'compute'?

Experimental Computer Science can be done with computers whereby we can learn more about the natural world by observing the emergent behaviour of a colony of interacting software agents in a simulation. Computer Science is about designing new algorithms to solve new problems. In this sense Computer Science is no more about computers than astronomy is about telescopes. Many great challenges lie in the future for Computer Scientists to solve. This course, with its emphasis on abstract thinking, general problem-solving, algorithmic and mathematical reasoning, scientific and engineering-based thinking is a good foundation for understanding these future challenges.

ASSESSMENT AND COURSEWORK

In the AS specification there are two units.

UNIT CG1 – This unit is about acquiring knowledge and understanding of software, system development, data and applications, which are assessed by means of a three hour written examination. However, candidates will also draw upon this knowledge during their practical work for Unit CG2.

UNIT CG2 – This unit is designed to develop the practical aspects of Computer Science in a way that would not be possible through a written examination. The unit examines knowledge and understanding as well as skills applied in a practical way. The main objective of this unit will be the analysis, design, software development, documentation, testing and evaluation of a system leading to a solution to the given problem. The unit is also designed to prepare candidates for Unit CG4 which requires the integration of these skills in the production of a solution to a problem identified by the candidate.

The A2 specification builds on the content of AS, with UNIT CG3 about acquiring knowledge and understanding of software, system development, data and applications, which are assessed by means of a three hour written examination. The second unit, UNIT CG4 requires the candidate to analyse, design, implement, test and evaluate a computer solution to a substantial problem of their own choice. The system proposed by the candidate may consist of one integral program or a suite of related programs or may use an applications package together with an underlying programming language.

AS (2 Units)

UNIT CG1 –

32.5% 3 Hours Written Paper 100 marks (130 UMS)

A written paper of one section, presented in a question-and-answer booklet format. There are no optional questions. Quality of Written Communication is assessed in one question only.

UNIT CG2 –

17.5% Internal Assessment (Task) 100 marks (70 UMS)

Candidates analyse, design, implement, test and evaluate a solution to a given problem requiring the production of original code (programming).

A2 Level (the above plus a further 2 units)

UNIT CG3 –

32,5% 3 Hours Written Paper 100 marks (130 UMS)

A written paper of one section, presented as a question paper requiring a separate answer booklet. There are no optional questions. Quality of Written Communication is assessed in one question only.

UNIT CG4 –

17.5% Internal Assessment (Project) 100 marks (70 UMS)

Candidates analyse, design, implement, test and evaluate a solution to a substantial problem of their choice requiring the production of original code (programming). This is a substantial piece of work, undertaken over an extended period of time.

ADVISED ENTRY

The A' Level course is a continuation of the knowledge gained at GCSE Computer Science. It is also advised that the students opting for the subject have a sound Mathematical understanding.

KEY SKILLS

A pass at A2 level provides exemption from IT Key Skill at Level 3. Elements of this course also contribute to all other Key Skills. Details are available if wanted.

CAREERS AND ADDITIONAL INFORMATION

This AS / A2 is vital for those who wish to study Computer Science or related studies at a higher level. It is also extremely useful to anyone likely to use computers significantly in their work, particularly work of a scientific or technical nature. This course is therefore of particular interest for those likely to follow a Computer Science, ICT, Science or Engineering career.

STUDENT'S VIEW

"A' Level Computer Science has been a valuable and interesting course. It has given me an insight into computers and how they work. We also do programming, which is different and interesting and has helped to develop my technical and problem solving skills."

FURTHER MATHEMATICS

For those who are wishing to study Mathematics, Science, Computing or Engineering at university, Further Mathematics could be a necessity. Those wishing to take Further Mathematics will need to opt for both Mathematics and Further Mathematics at A level. The six modules required for Mathematics 'A' level C1, C2, C3, C4, S1 and M1 will be taken in Year 12. The Further Mathematics modules FP1, FP2, FP3, S2, M2 and D1 will then be studied in Year 13. All the modules are examined by a 1.5 hour written paper.

ADDITIONAL INFORMATION

FP1 - includes Inequalities, Series, Complex numbers, First and Second order differential equations, Polar coordinates.

FP2 - includes Coordinate systems, Hyperbolic functions, Calculus

FP3 - includes Complex numbers, matrix algebra Vectors, Series Numerical methods, Proof

S2 - includes The Binomial distribution, The Poisson distribution, Continuous random variables, Continuous distributions, Hypothesis tests.

M2 - includes Kinematics, Centres of mass, Work energy and power, Collisions, static of rigid bodies.

D1 - includes Algorithms, Graphs and Networks, Route inspection, Critical path analysis, Linear programming

ENTRY REQUIREMENTS

This course is only available to the most able candidates who were coping well in sets 1 and 2 in Year 11. A grade A or A* at GCSE is essential!

Travel & Tourism

GENERAL INFORMATION

The AS and Advanced GCE in Travel and Tourism enables candidates to develop broad skills, knowledge and understanding of the travel and tourism industry. This course prepares candidates for further study or training in travel and tourism related occupations. During the course candidates will:

- Develop and sustain an interest in travel and tourism and the issues affecting the development of the industry and its potential effect on employment opportunities.
- Develop an understanding of the scale and importance and importance of the travel and tourism industry and the interdependence of its sectors.
- Appreciate the importance of the customer to the travel and tourism industry
- Appreciate the importance of the host destinations and communities to the travel and tourism industry and the importance of sustainable development.
- Appreciate the positive and negative impacts travel and tourism may have on people, environment and economy.
- Develop practical and technical skills relevant to the travel and tourism industry.
- Appreciate the global and dynamic nature of the travel and tourism industry, how people, environments and issues change, and how the industry responds to these changes.
- Appreciate the impact of information and communication technology (ICT) on the development of the travel and tourism industry and the potential effect on future activities.
- Appreciate the significance of the values and attitudes of key stakeholders in the travel and tourism industry.
- Develop their own values and attitudes in relation to travel and tourism issues.
- Apply their knowledge and understanding of travel and tourism and use skills of research, evaluation and problem solving in vocational contexts.

WHAT WILL WE LEARN?

The unit structure is designed to allow for a variety of pathways.

- Single AS Award - 2 Units
- Single A2 Award - 4 units

	AS UNITS	A2 UNITS
SINGLE AWARD	Introducing Travel and Tourism* And Investigating Tourism Destinations	Tourism Impacts and Tourism Development* And Event Management in Travel and Tourism

Units marked with an asterisk will be externally assessed. All other units will be internally assessed through portfolio evidence.

You might choose to study this subject alongside *Geography*, *Business* or *Sport and Physical Education*.

What skills will I develop?

GCE Travel and Tourism has a strong vocational emphasis and, as well as gaining work-related knowledge; you will develop initiative, problem-solving and teamwork skills.

How will I be tested?

Two units will be assessed through coursework and two through externally marked examinations.

What could I go on to do with this qualification?

The *GCE in Travel and Tourism* will give you a broad background in the leisure industry, which will allow you to progress to further or higher education, training or employment.

Course construction

The BTEC level 3 is assessed by students completing units of coursework which are internally assessed and externally moderated.

Students can be graded at Pass, Merit and Distinction which are broadly equivalent to E, C and A at A level.

Edexcel BTEC Level 3 Subsidiary Diploma in Business**60 credits from a combination of units**Course content.

This qualification consists of four compulsory units totalling 40 credits plus units totalling another 20 credits which can be varied to meet the resources available. This qualification is broadly equivalent to one A level and scores the same UCAS points as an A level.

Unit 1 - The Business Environment (10)

Unit 2 - Business Resources (10)

Unit 3 - Introduction to Marketing (10)

Unit 4 - Business Communication (10)

Plus 20 credits from a very wide choice of topics.

Skills You Will Develop Through Studying This Subject

- Research analysis.
- Oral and written presentation skills.
- Practical skills.
- Application and evaluation.
- Project management.

Typical Questions we Investigate

- Why has McDonalds changed its menu?
- How does Apple decide which features to include in its new products?
- When is it a good time to start a new business?

Recommended Entry Requirements & Additional Relevant Information

- You do not need prior learning in this subject. You need at least 5 GCSE's A*-C including Maths and English.
- This course combines particularly well with Economics, Maths, English, RE and Sports Studies. It does, in fact, go with anything.

Subject: Economics & Business**Level: AS/A2****AS Course Construction - Year 12 8EB01**

This course is assessed by examinations taken in the summer term.

Module Name	Weighting %	Description
Unit 1	50	<p>Developing New Business Ideas: One exam paper, multi-choice and data response questions.</p> <p>This unit covers the characteristics students would need to develop to be successful in business and how new or existing businesses generate their product or service ideas and test them through market research. Students should also consider the competition in their market; the economic climate; how the business might be financed and how much revenue the idea might generate.</p>
<u>Unit 2b</u>	50	<p>Business Economics: One exam paper, multi-choice and data response questions.</p> <p>This unit considers the market that the business may be operating in; how competition in the market and macroeconomic change is likely to affect it and how businesses can seek to minimise uncertainty through their actions.</p>

A2 Course Construction - Year 13 9EB01

This course is assessed by examinations taken in the summer term.

Module Name	Weighting %	Description
Unit 3	50	<p>International Business: One exam paper, data response questions and a case study</p> <p>The aim of this unit is to introduce the student to the world of international business and issues which a company trading internationally would have to consider.</p>
<u>Unit 4b</u>	50	<p>The Wider Economic Environment and Business: One exam paper, data response questions and a decision making report.</p> <p>In this unit, students consider why certain markets fail; how government decision making affects the economy and markets in which companies operate, and the income and welfare of private individuals. The unit should enable students to assess why government economic policy can succeed or fail and why regulation of some markets is necessary.</p>

AS Course Content

- Entrepreneurship and innovation.
- Market research.
- Small business finance.
- Economic factors.

A2 Course Content

- International trading.
- World economics issues.
- Government economic policy.
- Market regulation.

Skills You Will Develop Through Studying This Subject

- Communication, reading and responding, producing written materials, discussion and making presentations.
- Application of number and I.T. skills.
- Knowledge and understanding, application, analysis and evaluation.

Recommended Entry Requirements & Additional Relevant Information

- At least 5 GCSE's A*-C including Maths and English.
- This course combines particularly well with Maths, English, RE and Sports Studies. It does, in fact, go with anything.

Subject: Geology**Level: AS/A2****AS Course Construction - Year 12**

Module Name	Weighting %	Description
Foundation <i>Geology</i>	35	Earth, matter, energy and time studies
Investigative <i>Geology</i>	30	Laboratory work and mapwork study
Human <i>Geology</i>	35	Natural hazards, human hazards, engineering <i>Geology</i>

A2 Course Construction - Year 13

Module Name	Weighting %	Description
Extension <i>Geology</i>	35	Rock & fossil study mapwork and rock deformation
Geology of Lithosphere Natural Resources	35	Study of plates and their movements Earth resources - ores, rocks, oil, gas, water
Coursework	30	Planning implementing, analysing, evaluating one laboratory work and one fieldwork assignment.

AS Course Content

- Matter - global structure of earth and composition of crust - examination in May.
- Energy - earth energies and resulting processes - examination in May.
- Time & Change - fossil study, the changes through time - examination in May.
- Human *Geology* - volcanic, earthquake, landslide study, waste disposal, mining, engineering activities - dams, tunnels, cuttings, buildings - examination in January.
- Investigative *Geology* - practical exam and mapwork - April.

A2 Course Content

- Extension Course - Magma formation and processes, sedimentary rock textures and metamorphic processes. Rock deformation study and mapwork. Past Life and Past Climates study.
- 2 themes (a) Lithosphere studies - plate tectonic processes and (b) Natural resources - study of earth resources including ores and oil.

Skills You Will Develop Through Studying This Subject

- Observations, measuring, scientific drawing.
- Field skills.
- Use of I.T. presentation.
- **Research skills.**
- Planning, implementing, analysing, evaluating.
- Skills of independent study.
- Key skills - writing, discussion, presentation.

Pembrokeshire Earth Science Schools Trust (PESST)

- The department has the support of the PESST Trust and this will offer the opportunity to experience presentations by and work with inspirational university geologists and have the opportunity to gain one of the four £6,000 bursaries if going on to study university *Geology* or Earth Science at an accredited Geological Society centre of study.

Recommended Entry Requirements & Additional Relevant Information

- 5 A-C GCSE passes with a C+ in Science.
- See Mr C W Evans for more information or note the department "flyer".
- See the *Geology* notice board in stairwell landing in Science Department.

Higher Education

- Strong links with Cardiff University (presently four Pembroke School students studying *Geology* at Cardiff).
- The department has an excellent reputation for sound results and teaching and the courses will be jointly taught by Mrs A Unwin and Mr C W Evans.

Subject: Media Studies

Level: AS/A2

AS Course Construction - Year 12

Module Name	Weighting %	Description
MS1	50	Written examination on Media Representation
MS2	50	Coursework

A2 Course Construction - Year 13

Module Name	Weighting %	Description
MS3	50	Coursework
MS4	50	Written examination on 3 Media Industries

AS Course Content

- **MS1 - Media Representations & Responses**
Three compulsory questions including one question on unseen audio-visual or print based material, addressing Representation, Genre and Audience.
- **MS2 - Media Production Process**
Three components of practical and written coursework based on creating a specified media text.

A2 Course Content

- **MS3 - Media Investigation & Production**
Three coursework components developing from a written research project on either Genre, Narrative or Representation.
- **MS4 - Text, Industry & Audience**
Three written questions from a choice of six on different media industries and organisations studied during Year 13. (Film & Cinema, Television and Advertising).

Skills You Will Develop Through Studying This Subject

- Critical Analysis.
- Creative Writing.
- Sociological Awareness.
- Media Targeting.
- Practical Photographic & Film Work.

Recommended Entry Requirements & Additional Relevant Information

- Media Studies has consistently been one of the most successful A level subjects at the school in recent years.
- Students who have achieved 5 A*-C grades at GCSE (Grade B minimum in English).
- Students who prefer a course with parity between coursework and examinations.
- Students who have a keen interest in exploring social effects of the media.
- Students who enjoy learning through creative writing/design and production.
- Students who want to learn and are eager to succeed, the lazy need not apply.
- Students will have the option to participate in a four day residential visit to Paris in Yr 12 and London in Yr 13 to study multinational media industries.

AS Course Construction - Year 12

Module Name	Weighting %	Description
DT1	40	2 hour Written Examination
DT2	60	Coursework - one design and make activity

A2 Course Construction - Year 13

Module Name	Weighting %	Description
DT3	40	2½ hour Written Examination
DT4	60	Major project

AS Course Content**DT1 - Examination**

- 4 main areas of study : designing and innovation product analysis, materials and components and industrial and commercial practice.

DT2 - Coursework

- Completion of an extended piece of coursework which includes practical work, product analysis, investigations and research activities.
- Topics include 'Celebrity Chefs', 'Cook/Chill Products', 'The Influence of the Mediterranean Foods' and 'Innovative Smart Foods'.

A2 Course Content**DT3 - Examination**

- In addition to extending the areas covered at AS Level, production systems and control, human responsibility, public interaction and processes are studied at A2.

DT4 - Coursework

- A major design and make task (selected by the student) - an in-depth investigation into a selected topic to enable students to develop an innovative range of food products and their packaging.

Skills You Will Develop Through Studying This Subject

- **ICT**
- Communication
- Investigation and analysis skills
- Manufacturing skills
- Working as an individual and as part of a team

Recommended Entry Requirements & Additional Relevant Information

- Minimum Grade C at GCSE if Design & Technology course studied.
- You do not need to have studied Design & Technology at GCSE.

AS Course Construction - Level 3 Certificate in Sport (30 credits)

		Credits	Description
Unit	Mandatory Units		
1		5	Principles in Anatomy and Physiology in Sport
2		5	Physiology of fitness
3		10	Assessing in Risk in Sport
Unit	Optional Units - One unit from		
7		10	Fitness testing for Sport and Exercise
29		10	Principles and Practices Outdoor Education

A2 Course Construction – Level 3 Subsidiary Diploma in Sport (60 credits)

(Students must pass the Certificate in Sport successfully and complete a further 30 credits, from the optional units below).

		Credits	Description
Unit	Mandatory Units		
1		5	Principles in Anatomy and Physiology in Sport
2		5	Physiology of fitness
3		10	Assessing in Risk in Sport
Unit	Specialist Unit		
7		10	Fitness testing for Sport and Exercise
29		10	Principles and Practices Outdoor Education

Unit	Optional Units	Credit	Level
4	Fitness Training and Programming	10	3
5	Sports Coaching **	10	3
6	Sport Development	10	3
7	Fitness testing and sport and exercise ***	10	3
8	Practical team sports *	10	3
9	Practical individual sports *	10	3
10	OAA *	10	3
11	Sports Nutrition	10	3
12	Current Issues	10	3
13	Leadership in Sport **	10	3
14	Exercise health and lifestyle	10	3
15	Instructing physical activity and exercise	10	3
17	Psychology for sports performance	10	3
24	PE and the care of children and young people	10	3
26	Work experience in sport	10	3
27	Technical and Tactical skills in sport	10	3
28	The athletes lifestyle	10	3
29	Principles and practices in OAA ***	10	3
33	Skills for land based OAA	10	3
34	Skills for water based OAA	10	3
39	Sports facilities and operational management	10	3

* Learners may select only one from unit 8, 9 or 19

** Learners may select only one unit 5 or 13

*** Learner may select, as an optional unit, whichever of unit 7 or 29 that was not taken as a mandatory specialist unit

Course Content:

- The Edexcel BTEC Level 3 Certificate in Sport is a 30 credit, 180 (GLH) qualification that consists of 3 mandatory units plus optional units.
- The Edexcel BTEC Level 3 Subsidiary Diploma in Sport is a 60 credit, 360 (GLH) qualification that consists the above AS (30 credits), plus optional units that provide a combined total of 60 credits.

Skills You Will Develop Through Studying This Subject:

- Independence, time-management and research skills.
- **Communication, written and oral through portfolio, class/group discussions.**
- **I.T. skills for the portfolio assignments.**

Recommended Entry Requirements & Additional Relevant Information

- Minimum of 5 A*-C Grades at GCSE to include English Language at Grade B.
- If you have not studied PE at GCSE an interview will be required with the Head of Department.
- This course is equivalent to an A Level and highly valued by universities and further education colleges, as well as potential employers.
- BTEC's are work related qualifications designed for students who have a clear view of their future career or seeking higher education.
- For further details contact the PE Department.