Brymore

experience to last a lifetime

OPTIONS BOOKLET

SEPTEMBER 2020

BRYMORE OPTIONS BOOKLET - education to last a lifetime

'Excellence is not an action, but a habit.' Aristotle

Every Brymore Boy is encouraged to excel - academically, personally and practically. Nowhere will you find a stronger drive towards the best, most rounded education for all. We place equal emphasis on academic achievement and practical learning, because every boy is different and will thrive when inspired. Whatever your son's strengths are - whether academic, social or practical, we will find them, nurture them and encourage him to reach his full potential.

Brymore teachers pride themselves on the individual attention they can give and work tirelessly to encourage progress in every subject. We do this because we care - and because every boy deserves the chance to do well. It truly is an education like no other.

This **Options booklet** is designed to help you and your son make informed decisions about the direction he chooses to take in Year 10 and 11. It is a crucial time in any child's life and the decisions you make today will have a significant impact on the life he leads tomorrow. With this in mind, we hope you will find everything you need in here to help you to understand what's on offer for next year. Should you wish to know more, please do not hesitate to contact the subject leaders, whose email addresses are included in this booklet.

How does it work? There are four CORE subjects, which ALL students study, regardless of their option choices. These are:

English (including English Literature)

Maths

Science

Design Technology

In addition to this, students have the option to choose ONE subject from EACH of the following Option Blocks, to tailor their learning to their chosen pathway.

Option A		Option B		Option C	
History*		**Art**		**Business Studies**	
Geography*		**Engineering**		**Land Based**	
Engineering		**Computer Science* (6+ maths)**		**Geography***	
French**		**Land Based**		**Sports Studies**	

- **BOYS SHOULD PICK ONE OPTION FROM EACH COLUMN**
- **Boys CANNOT choose the same subject twice, even though it appears in different blocks**
- ***Boys MUST choose ONE Humanity subject - either HISTORY or GEOGRAPHY, so if they choose ENGINEERING in Block A, they MUST choose Geography in Block C. Boys are allowed to choose BOTH History and Geography on this model.**
- **Boys MUST have a predicted grade of minimum 6+ in maths to choose Computer Science OR be in Set 1 or 2 for maths and have agreed with Mr Dickson that he believes you will be able to access the course**
- ****French will only run if there are enough boys wanting to study it**

The rest of this booklet contains information about the core subjects and each of the Option Subjects, to enable you to make an informed decision about what subjects you and your son would like to choose

For more information about the careers your son might wish to follow and the subjects he needs for this, go to *www.direct.gov.uk/National**Careers**Service*

ENGLISH

Contact: Mrs Taylor-Lane

Email: jtaylor-lane@educ.somerset.gov.uk

Welcome to the Brymore English Department!

Opening minds: Brymore English Focus Day…

We pride ourselves on our record of 'outstanding' teaching (noted again by Ofsted in 2018) which encourages boys to exceed expectations and achieve the best possible results (currently top in Somerset). We encourage our students to think for themselves, to analyse language with originality and perception, to develop into confident, highly skilled critics. There are no barriers. Boys are expected to work hard and commit totally to all aspects of the course. In return, we aim to inspire, encourage and praise, because enjoyment breeds motivation, which in turn, breeds success.

'Boys will achieve their full academic potential. What makes English at Brymore unique? The fact that in many cases, they will go beyond this.'

<u>What will GCSE English be like</u>?

Students study two GCSEs in Language and Literature. The Language course will immerse students in examples of 19th, 20th and 21st century fiction and non-fiction texts which will develop their skills in comprehension and analysis. They will also learn how to compare and contrast texts. In addition, students will learn how to write in different styles for a range of purposes. The Literature course will introduce them to poetry exploring the theme of conflict from the 18th century to the present. Students also study 19th and 20th century texts, including 'Dr Jekyll and Mr Hyde' and 'Blood Brothers' as well as Shakespeare's 'Macbeth'. Both courses have two terminal exams at the end of Year 11; the new 9-1 GCSE contains no coursework or controlled assessment.

MATHEMATICS

Contact: Mr Ashton

Email: ianashton@educ.somerset.gov.uk

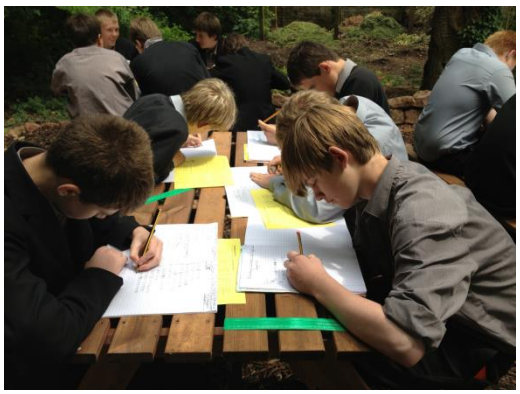
Brymore's maths department has been positioned second in Somerset and in the top 10% of schools nationally for progress; since 2011 we have almost doubled our A*-C grades, (now 9-4 grades), hoping for more impressive results this summer. We firmly believe in deepening the understanding of every student by enriching the learning experience.

"A rising tide lifts all ships"

We encourage parents to support boys, testing them on tables for a few minutes a day, engaging with Hegarty Maths prep or MathsWatch assignments by checking results and learning about what has been set before your son asks.

What will GCSE maths be like?

Students study maths with Pearson Edexcel, learning to analyse and solve problems using skills and concepts from the strands of number, algebra, shape, space and data handling. Students are set in maths: sets 1 and 2 study the higher tier syllabus and set 3 the foundation tier, where a grade 5 is still achievable.



We encourage an enjoyment of the subject through competition and making use of our inspiring surroundings, especially on the farm.

Opportunities to extend and stretch students include 'Set Zero', where Year 10 and 11 students enjoy enrichment activities beyond GCSE as well as studying grade 8 and 9 (A and A*) topics. Students are welcome to attend extra maths sessions before and after school, to practise basic skills and to push themselves to reach their maximum potential.

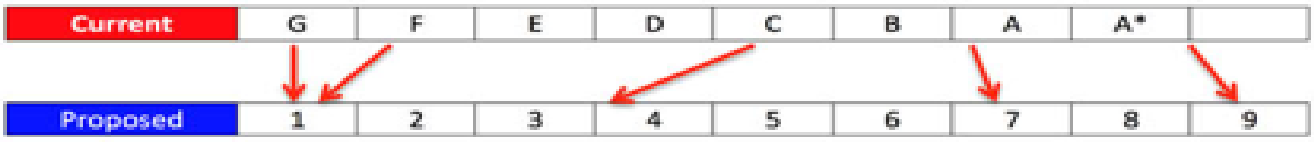
The final examination is in June of Year 11 and consists of one non-calculator and two calculator papers. Students are continually assessed using mock examinations, beginning at the end of Year 10 and regularly throughout year 11. Expectations are high; students must improve their grade term by term arriving at their examination confident to achieve their target grade or more.

IMPORTANT NOTICE

Changes to GCSEs: From A*- G to 9-1

PLEASE NOTE: THERE HAVE BEEN SIGNIFICANT CHANGES TO THE COURSES OFFERED IN ALL SUBJECTS, FOLLOWING THE GOVERNMENT'S DECISION TO MOVE FROM MEASURING GCSES FROM A*-G GRADE, TO THE CURRENT SYSTEM WHICH IS MEASURED FROM 9-1.

WHAT EXACTLY DOES 9-1 MEAN?



WHICH SUBJECTS ARE AFFECTED?

All subjects have now moved to the new 9-1 grading system: English, Maths, Science, Art, History, Geography, DT, Business Studies, and Computer Science. Some practical subjects use Pass (equivalent Grade 4/5); Merit (Grade 6/7); Distinction (Grade 8/9).

Many colleges will be looking for boys to have achieved AT LEAST Grade 5 (though some will accept Grade 4, [check with the college]) in English and Maths, to access Level 3 courses (A-level equivalent).

SCIENCE

Contact: Mr Craig

Email: NCraig@educ.somerset.gov.uk

The Science Department prides itself on delivering engaging lessons that support learning with relevant practicals. Students are encouraged to question the world around them and draw conclusions of their own based on evidence from their practical work and class discussion.

The Science Department delivers the Edexcel Combined GCSE syllabus. This provides the most suitable route for students to achieve success in this all important core subject.

Science is a practical based subject and students will carry out practicals when appropriate. In Combined Science, students will carry out the 8 core practicals for each science and many more.

Changes to the guidelines now mean that students will sit no external exams in Year 10 for all exam boards. In Year 11, students will sit 6 papers, 2 each from Biology, Chemistry and Physics. These will make their combined GCSE score, for example 5-5 or 5-6. There is no longer a coursework element to GCSE science, however Ofqual are yet to decide how they will assess the Core practicals.

What will GCSE Science be like?

GCSE Science provides challenge at every level; lessons are designed to be engaging whilst delivering the large amount of content from the Science specification. Independent learning is encouraged and supported alongside a provision for students requiring additional support. The intention is that Science will be memorable for students when they leave Brymore and they will hopefully consider a future in a scientific field.

EXAM BOARD: Edexcel

KEY TOPICS COVERED:

Animal control and homeostasis
Exchange and transport in animals
Genetics
Health, diseases and medicines

Fuels
Obtaining and using metals
Rates of reaction
States of matter

Electricity and circuits
Electromagnetic induction
Light and the magnetic spectrum
Radioactivity

How many exams do I take and when?

Due to the new government guidelines, students will sit no external GCSE exams in Year 10

In Year 11, May/June 2020

Students will sit 6 exams in total, 2 papers for Biology, Chemistry and Physics

Each exam being equal to 16.67% of their 2 GCSE grades

Core practicals will be assessed but the nature of this has yet to be decided by Ofqual

Science Career Options:

Earth and Environmental Science

Aquacultural Manager
Aquarist
Cartographer or Photogrammetrist
Climate Change Analyst
Diver
Emergency Management Specialist
Environmental Compliance Inspector
Environmental Scientist
Geographer
Geoscientist
Hydrologist
Industrial Health & Safety Engineer
Meteorologist
Park Ranger
Science Manager
Soil and Water Conservationist
Soil Scientist
Surveyor
Water & Liquid Waste Treatment Plant & System Operator

Physical Science

Astronomer
Audio and Video Equipment Technician
Aviation Inspector
Chemical Technician
Chemist
Chemistry Teacher
Electrician
Film and Video Editor
Food Science Technician
Food Scientist or Technologist
Forensic Science Technician
Nuclear Monitoring Technician
Nuclear Power Reactor Operator
Occupational Health & Safety Specialist
Physicist
Physics Teacher
Pilot
Power Distributor & Dispatcher
Power Plant Operator
Precision Instrument & Equipment Repairer
Ship & Boat Captain
Sound Engineering Technician

DESIGN AND TECHNOLOGY - Resistant Materials

Contact: Mr Austin

Email: AAustin@educ.somerset.gov.uk

Developing creative design and quality manufacture

Brymore students have achieved outstanding results in their Design and Technology GCSE, making us one of the highest achieving schools in Somerset for the subject area and stretching students to achieve to their full potential.

Design and Technology is a core part of the curriculum, which aims to equip students with qualities and experiences that will be applicable in a wide variety of contexts in their life after school. A wide range of practical skills are learnt in a variety of materials areas, giving students the opportunities to learn skills that they would not be able to develop to the same level at other schools. We emphasise the importance of independent thinking and learning as well as the designing and making skills that are taught in our well-equipped workshops.

Expectations are high. Brymore boys have a long standing reputation for producing high quality products. The final year GCSE projects always make an impressive display of imaginative design, organised working and attention to detail.

EXAM BOARD: AQA

How many exams do I take and when?

50% Final exam - taken in the Summer of Year 11.

50% Major Project & A3 Design portfolio.

OPTION BLOCK A

GCSE History

GCSE Geography

Engineering

HISTORY

Contact: Miss Owen

Email: sowen@educ.somerset.gov.uk

Welcome to GCSE History

GCSE history at Brymore aims to foster the imagination, creativity, and confidence of students. Through a combination of source analysis, independent research, project work, and presentations, students are encouraged to form their own informed opinions. An important aspect of good history writing is creating and sustaining an argument. Students are given the tools and encouragement to become confident in their arguments, and the historical knowledge to back them up.

The first GCSE module, The American West, is studied by all students in Year 9 in order to give them a taste of the GCSE course, and to allow sufficient time for revision in Year 11. The following two years are made up of a study of three different topics:

Medicine Through Time

This module is a British thematic study; this means that we look at a large swathe of British history through the lens of one topic. We look at change, the rate of change and continuity from 1000AD to present day, focusing a case study on the British sector of the Western Front.

Anglo-Saxon and Norman

This module focuses on the Battle of Hastings, William Duke of Normandy and his battle for control in England, ending with the succession crisis of 1087.

Weimar Germany 1918-1939

This topic starts at the end of the First World War when the world is trying to pick up the pieces. Germany in 1919 has signed the Treaty of Versailles and the people are angry. Weimar Germany looks at the conflict between the leaders and its people and how this disconnect led to the rise of one of the world's most infamous dictators. The course ends with Hitler's complete control of Germany.

<u>What exams do I take and when</u>?

The course is made up of three exams that will be taken in the summer of 2018:

Paper 1: Medicine through time (1 hour and 15 minutes)

Paper 2: The American West and Anglo-Saxon and Normans (1 hour and 35 minutes)

Paper 3: Weimar Germany (1 hour and 20 minutes)

<u>Careers with History</u>:

Prime Minister
Politician
Lawyer
Barrister
TV presenter
Public speaker
National Trust, English Heritage
Project Manager

<u>Famous people who studied history</u>

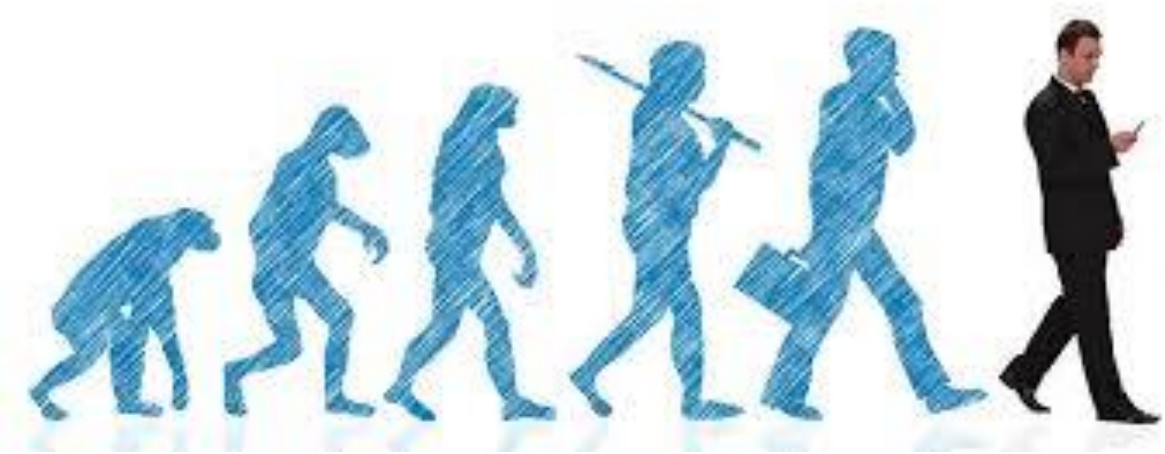
- Sacha Baron Cohen
- Steve Carell
- Salman Rushdie
- Chris Hughes
- David Cameron
- Winston Churchill
- Louis Theroux

Businessman: Research and writing skills are valued in the corporate world; corporate recruiters seek out historians because they want people who are broadly trained and can speak, write, and research clearly and effectively.

Management training programs of major corporations desire candidates capable of critically analysing large bodies of information. History students are trained to develop such skills.

Writers and Editors: Historians with good writing and editing skills often work as journalists, editors at textbook publishing companies, or document editors for publishing projects.

Some historians work as copy editors at magazines, such as Country Life.



GEOGRAPHY

Contact: Mr Ellis or Mr Sawyer

Email: TSawyer@educ.somerset.gov.uk
MEllis@educ.somerset.gov.uk

Welcome to Geography!

'Studying geography arms students with a mix of skills employers want to see'

Nick Keeley, director of the Careers Service at Newcastle University.

Geography offers an exciting and challenging curriculum that aims to equip boys with the knowledge to understand and skills to engage in the world around them, in a considerate and sustainable way. It offers practical and academic opportunities, both inside and outside the classroom, which will help students prepare for their assessments at the end of the course but importantly, life beyond Brymore.

The course has three main elements; physical geography themed topics, human geography themed topics and fieldwork experience, which links to one of the final exams. Physical topics include: **Natural Hazards** (tectonic and weather); **Living World** (including tropical rainforests and hot deserts); **UK Landscapes** (including coasts and rivers). Human topics follow: **Urban Issues and Challenges** (including migration, urban growth and impact); **Changing Economic World** (level of, and differences in development and global changes); **Resource Management** (demand for water, food and energy and sustainable water use). Pupils will also take part in two fieldwork studies in the local area (one physical and one human) and be expected to plan, prepare and carry out a variety of tasks, culminating in a short report for each piece of fieldwork.

There are so many fun and interactive ways to learn in geography. New skills such as modern computer based mapping (called GIS), map skills, interpreting photographs, IT, fieldwork, presenting and debating techniques. Literacy through class work and extended writing, and numeracy when interpreting data and constructing graphs with be improved.

Fieldwork, or working outside the classroom is an essential part of geography and a brilliant opportunity to experience some of the things you have learnt about in class.

Geography students are now considered some of the most employable people around because of the variety of skills the subject develops. Also, the subject in itself helps cultivate a rounded view of the world and respect towards other cultures. It can lead onto many different careers and doesn't limit future choices (see below for a small selection of career opportunities - more in Room 8).

EXAM BOARD: AQA

How many exams do I take and when?

There will be three written exams, taken at the end of Year 11:

1. Living with the **physical** environment (including skills)
2. Challenges in the **human** environment (including skills)
3. Geographical applications, which is based on current issues, fieldwork and skills (a pre-release resource booklet is issued 12 weeks before the exam).

Careers with Geography:

Jobs directly related:

Cartographer
Commercial/residential surveyor
Secondary school teacher
Geographical information systems officer
Planning and development surveyor
Environmental consultant
Town planner

Jobs where Geography would be useful:

Landscape architect
Market researcher
Finance
Tourism officer
International aid/development worker
Logistics and distribution manager
Nature conservation officer
Police Officer
Transport planner

ENGINEERING:

Contact: Mr Austin

Email: AAustin@educ.somerset.gov.uk

Why study Engineering?

This could be the course for you if you enjoy the more technical aspects of the workshops such as precision measurement, quality manufacture and industry standard production. You will need to use your maths and science in the study of metallurgy, whilst paying close attention to detail in your technical drawings and show your understanding of how Industrial practices affect an engineer's work, (for example the health & safety laws or an overview of life beyond school as an engineer). Your time will be divided between classroom theory and rigorous development of high grade hand fitting skills in the workshops.

What will the Engineering course be like?

The course we run at Brymore is highly challenging and you do need to be able to cope with the academic pressures of the theory elements as well as being prepared to hone your practical skill level to industry standards.

EXAM BOARD: NCFE Level 2 Certificate in Engineering Studies

This course can be achieved at Pass/Merit/Distinction. (It is worth a GCSE).

How many exams do I take and when?

Unit 1: Introduction to Engineering - Research project.

Unit 2: Introduction to Engineering Drawing - Technical Drawing & ICT.

(Unit 2 - is the only unit that will be externally moderated).

Unit 3: Tools & equipment for Engineering - Practical & Portfolio.

Unit 4: Engineering materials & their properties - Practical & Portfolio.

Engineering Careers:

This Level 2 qualification is recognised as providing entry status to a wide range of engineering related courses and apprenticeships, as well as giving a solid manufacturing background to any boy who feels this area is somewhere where they might like to pursue a future career.

It is hoped that boys would use the grounding we can give them to gain access to many chosen pathways which will utilise their proven hand skills, knowledge of industrial standard expectations and wide ranging learning related to engineering.

Possible examples of pathways could be:

Agricultural Engineer

Automotive Engineer

Mechanical Engineer

Drafting and Design Engineer

Marine Engineer

Aerospace Engineer

Also it could open the door to:

Industrial Apprenticeships

Garage mechanic

Maintenance Technician

Architectural Engineer

OPTION BLOCK B

GCSE Art

GCSE Computer Science

Land Based

Engineering

ART

Contact: Mrs Legg

Email: glegg1@educ.somerset.gov.uk

The Art Department at Brymore has a long standing history of excellence, with boys achieving exceptionally well, thanks to high expectations and good teaching.

In Art, students are encouraged to express their uniqueness and their creativity, whilst learning to motivate themselves and work independently.

What will GCSE Art be like?

You will learn about different movements, artists and philosophies, whilst developing your own skills in 2D. You will need to be organised, prepared to work in prep and in your own time to keep your sketch book up to date and capable of doing independent research to improve your grade. You will have many opportunities to follow your own interests and put together work that reflects you as an individual. Your exam will be based on a theme which the exam board will set in the second term of Year 11.

EXAM BOARD: Edexcel

How many exams do I take and when?

One final exam, including 20 hours of preparation time, under controlled conditions, in class.

Art Career Options:

Graphic design; architecture; Web Design + Development *a.k.a. interactive*

Motion Graphics Broadcast Designer / Motion Designer

Photography

Print Production & Pre-press

Publishing

Communications & Design Management Careers

Additional Design Fields

- Industrial Design
- Product Design
- Type Design
- Game Design
- Landscape Design
- AutoCAD, Drafting
- Design Professor

Related Art Careers

- Illustration
- Medical/Scientific Illustration
- Art Education (K-12)
- Art Therapy
- Architecture
- Museum Curator
- Gallery Director
- Art Historian
- Conservationist
- Filmmaker
- Craft Artist
- Fine Artist
- Cartoonist

Computer Science GCSE

Contact: Mr Dickson

Email: MDickson@educ.somerset.gov.uk

What will Computer Science be like?

Computer Science is a very technical course that suits students who have a very logical brain, are capable mathematicians and are enthusiastic about programming. Note: Calculators are not allowed in the exams. Even if you don't have a Grade 6 maths prediction, if you are really keen, technically minded and committed, contact Mr Dickson to see if you could access this course. If he says 'yes' then you can.

Computer Systems

This unit covers the body of knowledge about computer systems, computational thinking, algorithms and programming on which the examinations will be based.

The following topics will be covered in lessons:

· Computer systems - Purpose of the CPU, systems architecture, memory, storage.

· System Security - Threats and treat prevention.

· Networking - wired and wireless networks, network topologies, protocols and layers.

· Ethical, legal, cultural and environmental concerns. Data Protection Act, Computer Misuse Act, Copyright, Freedom of Information, Creative Commons, privacy and crime.

Computational thinking, algorithms and Programming

· Writing algorithms and flow charts

· Writing Pseudocode

· Programming techniques

· Producing robust programs, data representation, file handling, arrays databases, SQL, testing, test plans and test data.

· High and low level languages.

· Data representation. Binary conversion, Hexadecimal conversion and compression.

Programming project

Students will be issued a range of assessment tasks each consisting of up to three sub tasks. Students will need to create suitable algorithms (flowcharts & pseudocode) that will provide a solution to the stated problem then program their solutions in the Python programming language. Students will test their program at each stage to ensure they solve the stated problem using a suitable test plan with appropriate test data and then create an evaluation based on this data. This project doesn't contribute towards the final grade but enables students to develop some fundamental programming skills that will be assessed in the exams.

Skills required:

- Logic and problem solving - computers are just a series of logical circuits with electrical currents
- An interest in technology and its impact on society.
- Creativity - most problems have multiple solutions. You need to think about an efficient solution.
- You need to be an independent and creative thinker and willing to do lots of work outside of lessons.
- This is not an easy course and is only suitable for those who really enjoy programming and problem solving.

Exam Board: Cambridge

How many exams will I take and when?

Two exams at the end of Year 11: Computer Systems (Exam - 50%) 1 hr 30 mins
Computational thinking, algorithms and programming (Exam - 50%) 1 hr 30 mins

Useful links: · http://www.cambridge.org/gcse-computing/ · http://cambridgegcsecomputing.org/ · http://www.teach-ict.com/gcse_computing.html

LAND BASED STUDIES

Contact: Ms Marks/ Mr Willcocks

Email: KMarks@educ.somerset.gov.uk
RSWillcocks@educ.somerset.gov.uk

An amazing opportunity to do a 'hands on' subject in school!

The Farm and gardens are at the heart of Brymore and if you are truly interested in working within the Land Based Industry in future, then this is a good choice for you.

Level 2 Technical Award in Land Based Studies

This is an exciting new Award which combines both Agriculture and Horticulture together into one qualification and provides the learner with a solid understanding of the industry. It also provides a foundation upon which to build, without specialising in any particular aspect of the land based industry.

This Award is assessed through an exam (no lengthy coursework projects with deadlines to meet) and an assessed assignment on a topic chosen by the Awarding Body, which will be provided in February of year 11 and will be worked on over a number of weeks. This assignment comprises 60% of the marks and puts into context all that has been learnt and gets the student to think about a practical situation where land use is changing and to consider what the effects of that change may be.

All the practical tasks will inform and help the student to understand the subject material and will provide essential background information to enable them to complete the assignment and give it relevance.

Also within Horticulture we hope to be able to award Skills Test certificates, to prove the practical abilities of the student.

This broad award has been designed by people within the industry to meet the new demands of this developing sector of our economy and allows students to move into practical work or to take more advanced courses within a very wide selection of fields of interest.

The course content will comprise of information about animal and plant care and soil science, but it will also provide an understanding of agencies which are involved in the land based sector e.g. DEFRA, the National Trust etc. It also looks at the history of land use which will add colour and depth to the students understanding of why the countryside is as it is today and therefore what we should or could do as we look to the future. The challenge is to find viable ways to use the resources we have and to meet the market demands to develop a sustainable industry within which these young people could one day find employment and a future.

A course to provide you with a toolkit of knowledge, understanding and skills in the land based industry.

Who is this course for?

If you enjoy plant and animal husbandry skills as well as gaining knowledge into changing trends in the land based industry this course is for you.

This qualification allows you to explore how we use the land for purposes of housing, infrastructure, energy production, forestry production, farming and leisure, field and adventure.

What does the course look like?

There are Three Units:

· Exploring the use of land

· Application of science in the land based sector

· Application of technology in the land based sector

- You will have ONE written exam to test you on these! (This can be completed online!)
- There is the opportunity to Re-sit Once!

Lastly, the Synoptic Assignment

The synoptic assignment is an externally set project - a typical project would be working out how to make the most productive use of a piece of land.

Skills you will develop

Animal Husbandry

Plant husbandry skills

Optimum nutrition for animal growth and health

Team work

What comes next?

This course could take you on to college to study, Agriculture, Horticulture, Animal Management, Forestry and Arboriculture or A levels.

Specific courses such as City and Guilds Level 3 Advanced Technical in Agriculture would be natural progression.

Careers in the Land Based Industry:

Agriculture

- ☐ Animal Care
- ☐ Animal Technology
- ☐ Aquaculture
- ☐ Environmental Conservation
- ☐ Equine
- ☐ Farriery
- ☐ Fencing
- ☐ Fisheries Management
- ☐ Game and Wildlife Management
- ☐ Hort, Landscaping & Sports Turf
- ☐ Land-based Engineering
- ☐ Production Horticulture
- ☐ Trees and Timber
- ☐ Veterinary Activities

Careers with Horticulture:

Horticulturists apply the knowledge, skills and technologies used to grow intensively produced plants for human food & non-food uses and for personal or social needs. Their work involves plant propagation and cultivation with the aim of improving plant growth, yields, quality, nutritional value and resistance to insects, diseases and environmental stresses. They work as gardeners, growers, therapists, designers and technical advisors in the food and non-food sectors of horticulture.

A **Gardener** is a person that tends to a garden and is therefore a horticulturist. However, not all horticulturists are gardeners. Whilst many gardeners just enjoy growing plants and making their home environments look pleasant, some actually make a business from it and are self-employed and others develop their own garden centres or plant sale businesses.

Horticultural Scientist / Crop Physiologist / Taxonomists focus on the research that underpins horticultural knowledge, skills, technologies, education and commerce. Horticultural science encompasses all of the pure sciences - mathematics, physics, chemistry, geology and biology - as well as related sciences and technologies that underpin horticulture, such as plant pathology, soil science, entomology, weed science and many other scientific disciplines. It also includes the social sciences, such as education, commerce, marketing, healthcare and therapies, which enhance horticulture's contribution to society.

Garden designer

National Trust

English Heritage

Land Management

Environmental Management

Food grower

Business Manager

Arborist/Tree Surgeon/Urban Forester/Tree Service Technician

Botanist/Plant Biologist/Crop Specialist

Business Sales Representative

Promotes, markets, and distributes agriculturally/ horticulturally related products to retail or wholesale businesses and growers. May work for companies that manufacture or sell chemicals, fertilizers, equipment, or horticultural supplies, as well as seed and plant suppliers. Wide range of educational requirements.

Communications

Involves one or more forms of mass media. Types of positions include agriculture/farm news director, book/magazine author, editor, journalist, photographer, public relations, scientific writer, technical illustrator, videographer, and Web designer.

Consultant

Provides expert horticultural advice to businesses and growers. May specialize in one area; e.g. nursery crops. Many are self-employed; others work for equipment companies, landscape firms, and pesticide companies. Requires a minimum of a four-year college degree.

Enologist/Oenologist

Studies the science of wine and winemaking. Job types include operating machinery, picking grapes, teaching, and research, as well as winemaker. May be hired by colleges/ universities, wineries, and grape producers. Wide range of educational requirements.

OPTION BLOCK C

Sports Studies

GCSE Geography

Land Based Technical Award

Business Studies

OCR Cambridge Nationals - Sports Studies

Contact: Mr Williams

Email: LWilliams5@educ.somerset.gov.uk

Sport is at the heart of what makes Brymore special.

We have a strong philosophy that every boy should be active, fit and healthy to achieve his best. Boys are encouraged to run Chad's Hill at least once a week and take part in fitness, circuits and other activities in the evenings. All boys have something to offer and the key is not winning, but trying your best and commitment to training. Every boy is encouraged to play rugby for the Brymore team and boys are taken out frequently to compete with other schools in regional and national competitions across a range of sports, from hockey and rugby, to race walking and pole vaulting. Come and speak to us to find out the range of sports on offer!

What will the OCR Award in Sport be like?

Students will split their lessons between Practical and Theory, depending on the weather, available facilities and coursework completion. Students are strongly advised to commit to school sport. Those that attend practices on a regular basis, especially rugby & hockey, will be selected for circuits, which will only help understanding of training methods and develop leadership skills. School sport is not only a great practical activity to be assessed in, but also ensures students are fit and strong for life. OCR Students are required to do **a minimum of one Chads Hill run a week** and **keep up to date with evening fitness**. Students can be assessed practically in many sports, which we cover within lessons. Students will need to gain a good theory based knowledge of these activities too. To support the theory side of the course, pupils are advised to watch and research sport and sporting events. The course will require students to cover relevant examples from the sporting arena, such as positive sporting role models, successful sports leaders, banned sportsmen, the Olympic and the Paralympic Games. Lastly students will need to lead other students at school and there will be times when students will deliver activities to primary school pupils and lead activities within our extensive extra-curricular program.

Would your son fancy taking a hands-on course alongside their GCSEs that gives him a taste of what the sector is like, as well as the skills and confidence to succeed in his next steps? With the new OCR Sport Studies, students can not only get to know the industry, but also develop vital sports leadership skills and explore potential careers.

Sport Career Options:

- Exercise Physiologist - you can work in wellness, training, testing and research etc.
- Sports Training - Personal Trainer, Strength and Conditioning Coach, fitness instructors.
- Sports Medicine - medical practitioners, physiotherapists, physical therapists, sports trainer.
- Sports Dietitian - a career mixing food and athletes.
- Sports Coach - if you can't do it yourself, tell others how to do it.
- Education - teaching our youngsters about sport, health and fitness.
- Sports Official - there would be no sport without umpires and referees.
- Sport Psychologist - get into the minds of athletes.
- Biomechanist - jobs in biomechanics.
- Sport Journalist - write about what you like to watch.
- Administration - work with any sport as an assistant or facilities manager.
- Sports Photography - getting right next to the action to take photos sounds like a great job.
- Sports Marketing - including the job as a Sports Agent.
- Selling Fitness Products - How to start a business in the fitness industry.

BUSINESS STUDIES

Contact: Mr Dickson

Email: MDickson@educ.somerset.gov.uk

In Business, we will look the big questions that face us today.

What sort of business ownership model should I have if I start a new business?

How can my small business compete against national or multinational competitors?

How can I recruit, motivate and retain my staff?

How do international factors such what is happening in China, Europe or the USA affect the economy of the UK?

Globalisation, the environment and ethical behaviour in Business.

You will need an interest in Business, an enquiring mind and be willing to watch the news regularly to keep up to date with economic and political news.

What will GCSE Business Studies be like?

By studying Business Studies, you will:

Learn how to apply knowledge and understanding to different business contexts ranging from small enterprises to multinationals and businesses operating in local, national and global contexts.

Develop an understanding of how these contexts impact on business behaviour.

Use business terminology to identify and explain business activity.

Apply business concepts to familiar and unfamiliar contexts by using case studies.

Apply knowledge and understanding to business decision making, including: the interdependent nature of business activity, influences on business, business operations, finance, marketing and human resources; and how these interdependencies underpin business decision making.

Learn how different business contexts affect business decisions

Learn about the use and limitation of quantitative and qualitative data in making business decisions

Develop problem-solving and decision-making skills relevant to business

Investigate, analyse and evaluate business opportunities and issues

Make justified decisions using both qualitative and quantitative data, including its selection, interpretation, analysis and evaluation, and the application of appropriate quantitative skills. (Cash flow, costs, break-even, profit & loss, gross profit margin, net profit margin, average rate of return etc)

EXAM BOARD: Edexcel

KEY TOPICS COVERED:

Investigating small business (50%)

Enterprise and entrepreneurship - explore the impact of risk and reward on business activity and the role of entrepreneurship.

Spotting a business opportunity - explore how new and small businesses identify opportunities through understanding customer needs and conducting market research.

Putting a business idea into practice - making a business idea happen through identifying aims and objectives and concentrating on the financial aspects.

Making the business effective - explore a range of factors that impact on the success of the business, including location, the marketing mix and the business plan

Understanding external influences on business - stakeholders, technology, legislation and the economy.

Building a business (50%)

Growing the business - The impact of globalisation, the ethical and environmental questions facing businesses are explored.

Making marketing decisions - explore how each element of the marketing mix is managed and used to inform and make business decisions in a competitive marketplace.

Making operational decisions - meeting customer needs through the design, supply, quality and sales decisions a business makes.

Making financial decisions - explore the tools a business has to support financial decision making, including ratio analysis and the use and limitation of a range of financial information.

Making human resource decisions - organisational structure, recruitment, training and motivation.

How many exams do I take?

The new 2017 (9-1) course is 100% external exam assessment. You will take two exams which are both worth 50% of the final qualification. Both papers will consist of calculations, multiple -choice, short -answer and extended- writing questions.

During the course, there will be an emphasis on developing your exam technique.

Career Options:

A GCSE in Business Studies will be a stepping stone to a Level 3 College course or an apprenticeship or you might wish to start your own Business and take the skills learnt back to your own family business.