



BEECHEN CLIFF

Year 10 Parent Information Evening 2023

Aspiration • Compassion • Independence • Respect

Programme

Welcome - Mr Macdonald (Head of Year 10)

- **Introduction:**

Mr T Markall - Headteacher

- **Attendance and Behaviour**

Mr M Ambrose - Deputy Headteacher, Pastoral

- **Assessment and examination information**

Mr A Seal - Deputy Headteacher, Curriculum

- **Careers information**

Mr K Morris - Assistant Headteacher

- **How to support your son through his GCSEs:**

- English: Mr A. Sayles - Key Stage 4 English Coordinator
- Maths: Miss A. Hedger - Head of Maths
- Science: Ms R. Bala - Head of Science

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Vision and Values

To enable our pupils to achieve their aspirations and become a well-rounded, confident and compassionate individual who goes on to live a fulfilled life and make a positive contribution to society.

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Pastoral Support, Attendance and Behaviour

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Pastoral Care

- Tutor
- Head of Year
- Wider pastoral and safeguarding team
- Solution Focused Counsellor, Off the Record, School Nurse, Mentoring Plus
- Every member of staff
- Talk to us!

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External sources of support

- GPs
- CAMHS
- Kooth
- Online safety
- Safeguarding & Social Care

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Rewards



- Teacher / tutor positives
- Positives are linked to our school values (below)
- Attendance
- Punctuality
- We aim to reward the boys across all areas of school life
- Pulled together by the Character Award

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Attendance

- Punctuality - Start at 8:25am
- What IS good attendance?

96% +	Good to Excellent
92-96%	Low-level concern
90-92%	Cause for concern
Below 90%	Persistent Absentee

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Ideas for ways to support your son's desire to attend school

1. Speak positively about their opportunities and look forward to events in the school calendar.
2. Encourage good routines in the evening
3. Display their timetable - Help them to be prepared for school.
4. Celebrate their achievements
5. Check in with them and discuss how school is going regularly.
6. Encourage your son to join meaningful after-school activities, including sports and clubs.
7. Be honest with the school about any absences
8. Stay on top of your child's social contacts.

If you have serious concerns about their physical or mental health, consult with a medical professional.

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Assessment and examination information

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Assessment and examination information

Key Stage 4 Courses:

- Reformed GCSEs in all GCSE subjects (9-1)
- Greater emphasis on terminal examinations, much less coursework
- A few Level 1/Level 2 courses – various grading

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Assessment and examination information

Around top 3% nationally

Strong pass

Standard pass

New grading structure	Current grading structure
9	A*
8	A
7	A
6	B
5	B
4	C
3	D
2	E
1	F
1	G
U	U

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Assessment and examination information

New exercise books

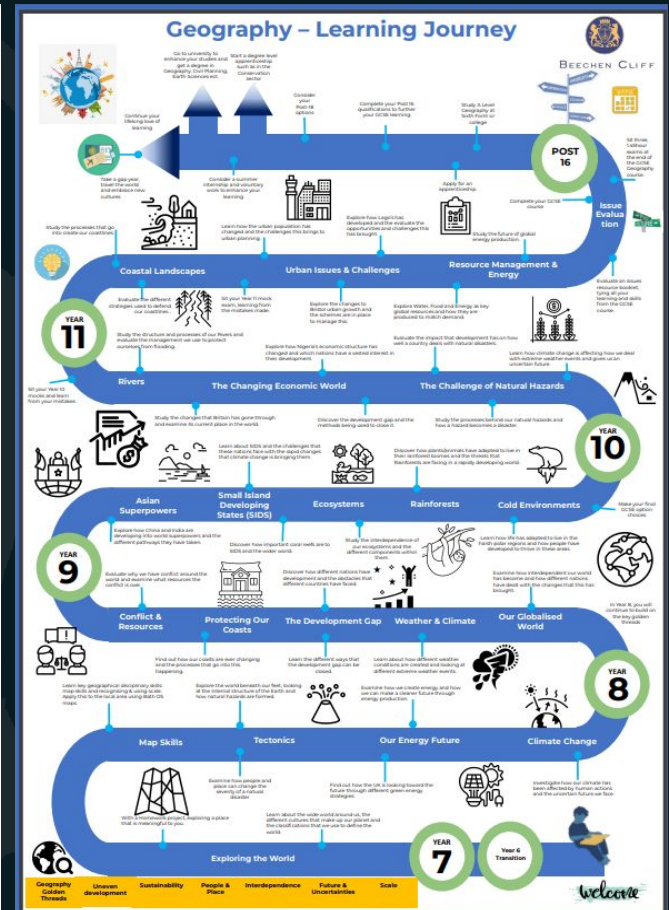
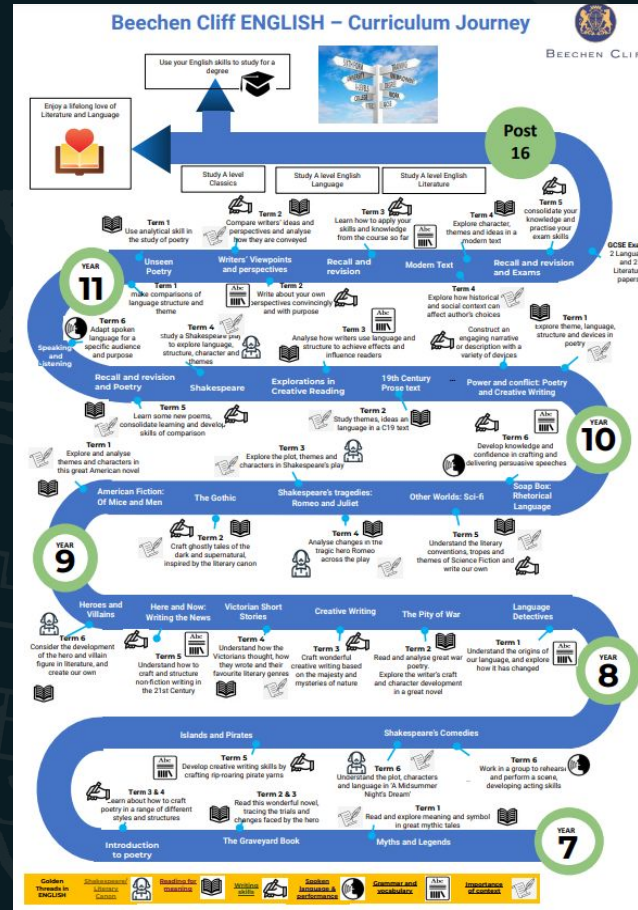


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Assessment and examination information

5 Year learning Journeys

These are on the inside of all books so you can see what will be covered.



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Assessment and examination information


Unit front sheets


Printed on purple

At the start of every topic

Provide a glossary of keywords as well as further information to help them remember content.




AQA Biology


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The Big Idea - The cellular basis of life	
Topic Title	Organising animals and plants chapter 4
What will we learn in this topic?	<ul style="list-style-type: none"> • The structure and function of the circulatory system • Treatments for heart disease • How the gas exchange system works • The way plants are organised and their transport systems.
Keywords	
arteries	blood vessels that carry blood away from the heart. They usually carry oxygenated blood and have a pulse
atria	the upper chambers of the heart
capillaries	the smallest blood vessels. They run between individual cells and have a wall that is only one cell thick
phloem	the living transport tissue in plants that carries dissolved food (sugars) around the plant
plasma	the clear yellow-liquid part of the blood that carries dissolved substances and blood cells around the body
platelets	fragments of cells in the blood that play a vital role in the clotting mechanism of the blood
red blood cells	biconcave cells that contain the red pigment haemoglobin and carry oxygen around the body in the blood
veins	blood vessels that carry blood to the heart. They usually carry deoxygenated blood and have valves to prevent the backflow of blood
ventricles	chambers of the heart that contract to force blood out of the heart
white blood cells	blood cells involved in the immune system of the body. They engulf pathogens and make antibodies and antitoxins
xylem	the non-living transport tissue in plants that transports water from the roots to the leaves and shoots
When did we last learn about this?	<ul style="list-style-type: none"> • Structure and function of body systems in year 7 • Ecosystem processes in year 8 • Cell structure and transport in year 9

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Assessment and examination information

Personalised Learning Checklists (PLC's) and Success Criteria sheets

These will be shared in the build up to each assessment to help them know what to revise.



End of Year 9 assessment Personalised Learning Checklist

In order to prepare for the end of year 9 assessment, you need to think about the science you have covered in Years 7-9. To help you revise the key areas, there are some links to content which contain more information, useful diagrams and videos to help you prepare for your assessments.

Topics	R	A	G
Biology topics			
Cells: <ul style="list-style-type: none">Animal and plant cells, Specialised animal cells, Specialised plant cells.			
Microscopes: <ul style="list-style-type: none">How to set up and use a microscope.			
Food and the digestive system: <ul style="list-style-type: none">Nutrition, the structure of the digestive system, food energy, healthy diet, different food types.Modelling the digestive system.			
Respiration and photosynthesis: <ul style="list-style-type: none">Respiration, Photosynthesis.			
Transportation in cells GCSE bridging topic : <ul style="list-style-type: none">Osmosis, diffusion, active transport.			
Chemistry topics			
Atoms, Elements and compounds <ul style="list-style-type: none">Elements compounds and mixtures, Atoms and molecules.			
Atmosphere and carbon dioxide <ul style="list-style-type: none">Atmosphere, carbon dioxide.			
Atomic structure GCSE bridging topic and linking physics topic . <ul style="list-style-type: none">Atomic structure, mass number and atomic number.			
Separation techniques <ul style="list-style-type: none">Separation techniques (includes dissolving, filtration, evaporation, distillation and chromatography).			
Physics topics			
The particle model of matter: solids, liquids and gases <ul style="list-style-type: none">Solids, liquids and gases.			

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Assessment and examination information

Formal Assessments:

- Year 10 Summer Exams – Week commencing 17th June
- Trial (Mock) Exams - November and March of Year 11
- Some coursework throughout Year 10/11
(only in some subjects)
- GCSE Exams at the end of Year 11

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Assessment and examination information

Lots more information on our website....

- A term by term breakdown of what is studied in each subject:

<https://www.beechencliff.org.uk/curriculum-assessment/overview/subject-curriculum-information/>

- Important exam rules

<https://www.beechencliff.org.uk/curriculum-assessment/exams-assessment/exam-board-info/>

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Assessment and examination information

Reports and parents evenings

- Progress Report 1 – November
- Parents Evening – Thursday 18th January (Held remotely)
- Full School Report - July

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Assessment and examination information

The reports will include:

- Target grade (Aspirational, based on Key Stage 2 results as well as recent assessments. This can be adjusted.
- Most Recent Assessment grade
- Working Towards Grade – an aggregate of assessment results so far as well as Teacher's professional judgement
- Application and homework scores (1-4)
- Teacher and Tutor Comments – Full report only

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Assessment and examination information

Who to contact:

- Specific subject concern – contact subject teacher or Head of Faculty
- General concern – contact tutor or Head of Year
- Exam timetable queries – contact our Exams Officer

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Assessment and examination information

Revision support in school:

Ongoing individual subject guidance

Year 10 - Tutor based revision and guidance before Summer Exams

- Year 11
- Revision skills afternoon before Trial Exams
 - Mentoring program from September.
 - GCSE Revision Evening (for parents) before Trial Exams
 - Revision skills seminars in February
 - January onwards - after-school revision sessions in all subjects (details in Wednesday Newsletter)
 - Tutor based mentoring support and support for all in creating revision timetables

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Careers Education, Information and Guidance



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Who's Who

Kim Mather

*SLT link with Curriculum & Sixth
Form*

Kevin Morris

*SLT link with Curriculum & Lower
School*

Emma Pascoe

*Head of Careers &
Level 6 Qualified Careers Adviser*

Martin Birchall

Governor with responsibility for Careers

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Careers Department Objectives

- To provide students with opportunities to develop an **understanding of themselves** as individuals (their strengths, skills, personal qualities, interests, attainments and capabilities).
- Increase student awareness of the **world of work** and opportunities available to them after post 16 or 18 (further/higher education, training and employment).
- Promote the schools core values of **Aspiration** and **Independence** and develop skills and personal qualities necessary to gain admission to higher/further education courses and employment.

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VERY safe hands - The Gatsby Benchmarks

Bench mark	Explanation	March 2020	March 2023
1	A stable careers programme	82%	100%
2	Learning from career and labour market information	100%	100%
3	Addressing the needs of each pupil	81%	90%
4	Linking curriculum learning to careers	93%	100%
5	Encounters with employers and employees	100%	100%
6	Experiences of workplaces	50%	100%
7	Encounters with further and higher education	95%	100%
8	Personal guidance	87%	100%

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Year 10 Careers Activities

PSHE & TUTOR PROGRAMME

Support students in:

- Self development
- Careers exploration
- Careers management (Careerpivot)

IGNITE DAY 30th NOVEMBER

Achieving Ambitions

A whole off timetable day identifying skills and abilities as well as pathways and potential routes for future employment

OXFORD UNIVERSITY & BATH COLLEGE VISITS

Next step Taster Day opportunities for students

NATIONAL CAREERS & NATIONAL APPRENTICESHIP WEEK

Variety of activities

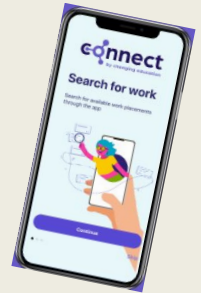
CAREERS APPOINTMENTS

Targetted 1:1 appointments with students to establish interests and opportunities

WORK EXPERIENCE

15th - 19th JULY 2024

One piece of advice - get in early!

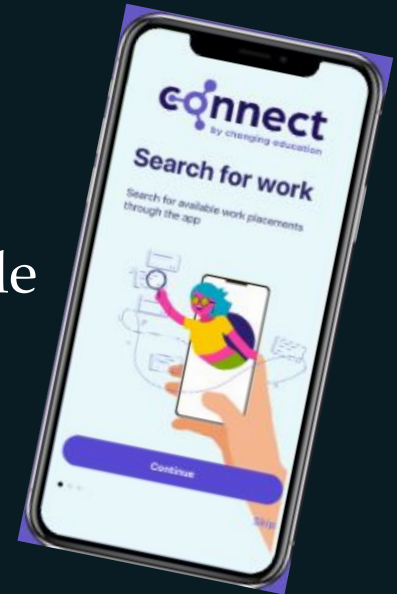


Changing Education App

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Resources

- Careerpilot Work Experience - what is in it for me?
- BBC Bitesize Careers A-Z
- www.prospects.ac.uk
- www.nationalcareersservice.direct.gov.uk
- www.ucas.com
- www.icould.com
- Type in Connect Placement Manager into your Apple or Google Play store and download the app.



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Who can help?

- Tutor
- Mr Macdonald - Head of Year 10
- Mrs Pascoe - Head of Careers
 - Drop In to Y7 at Lunchtime on Mondays, Tuesdays or Wednesdays
 - Or via email: epascoe@beechencliff.org.uk

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English

Mr Sayles - Key Stage 4 Coordinator for English



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How to help with studies: English

AQA English Language and English Literature

TWO GCSE qualifications- each with **TWO** separate examinations =
FOUR final summer exams.

Syllabus information www.AQA.org.uk

08700 English Language

08702 English Literature

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How to help with studies: English

Setting structure

Set 1

Mixed ability x 5 classes

Support group

We will set aspirational targets for your son which we think are challenging but achievable.

Set 1: 8/9

Mixed ability – grades 4-9

Support group- grades 4-6

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How to help with studies: English

English Language Assessment Two final examinations

Paper 1

Explorations in Creative Reading and Writing (Fiction)

Paper 2

Writers' Viewpoints and Perspectives (Non-fiction)

The Oral Speaking and Listening assessment is separately endorsed – completed during the course.

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How to help with studies: English

English Literature Assessment

Two Final examinations - Closed Text*

Paper 1- Shakespeare and 19th Century Fiction

- Both are extract based essay questions with a need to refer to the text as a whole

Paper 2- Modern texts and Poetry

- One essay question on Modern text
- One Anthology poem question
- One unseen poetry section

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How to help with studies: English

Closed Text*

This means that pupils do not have their texts with them in the examination.

Pupils must know the texts well and learn quotations 'by heart'

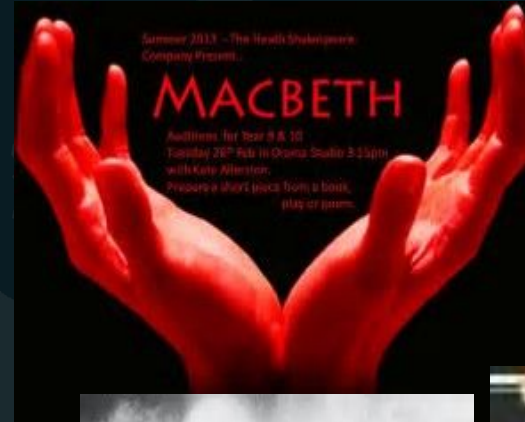
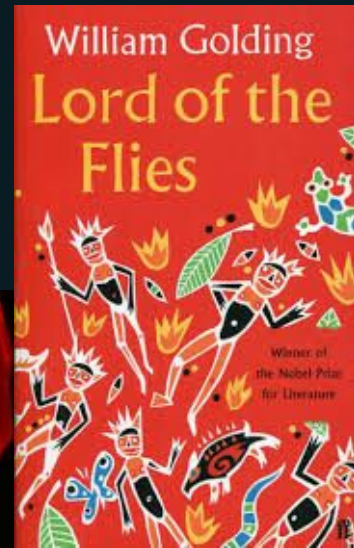
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How to help with studies: English

Although not obligatory, boys do benefit from having their own copies of the texts.

They are most useful if they are the same edition that the teacher/class is using. We advise waiting...

Boys will also benefit greatly from having their own highlighters and fineliners for annotation work.



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How to help with studies: English

In Year 10

Students will study at least two of the set texts and explore a range of other texts, cover most of the poetry anthology and complete their speaking and listening assessment at the end of the year.

In Year 11

Students will study one further set text and revise those studied in Year 10.

They will practise the skills needed for both examinations.

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How to help with studies: English

Homework and preparation tasks may include:

Reading and annotating or making notes
Drafting or rewriting essays
Memorising quotations-flashcards
Paraphrasing or summarising texts
Arguing for or against a topic
Discussing and re-organising ideas
Watching a film of a play or novel
Seneca Learning – app
Massolit- lectures on each text – a subscription service purchased by the school
Listening to a discussion on a topic or text

Further revision materials and guidance will be provided via Google Classroom

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Resources

- School Website
- www.careerpilot.org.uk
- www.prospects.ac.uk
- www.nationalcareersservice.direct.gov.uk
- www.ucas.com
- www.icould.com

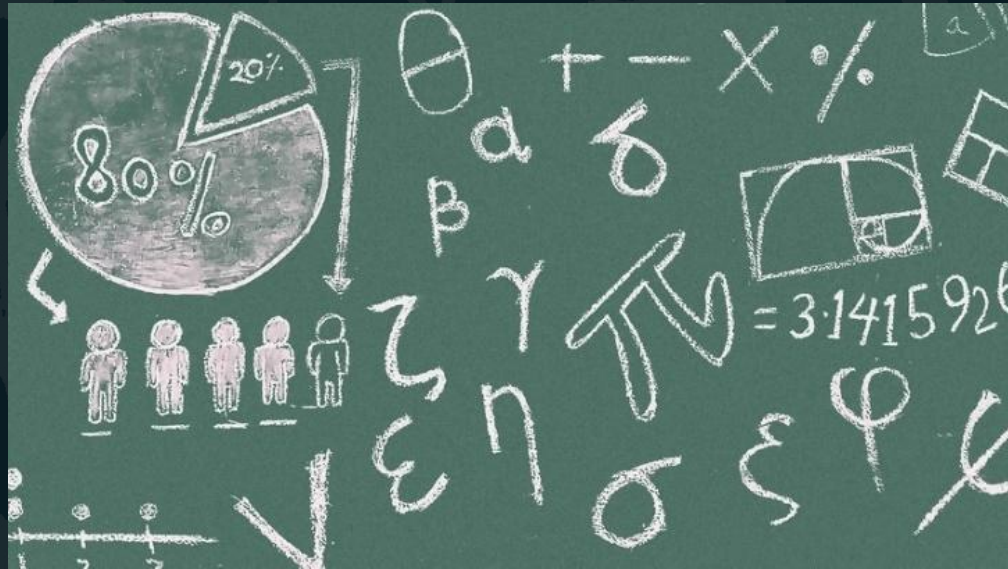
For any further information or queries, please contact:

epascoe@beechencliff.org.uk
workexperience@beechencliff.org.uk

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Maths

Ms Hedger - Head of Maths



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How to help with studies: Maths

Course

Edexcel GCSE Mathematics (9-1) 1MA1

Exams

- **Paper 1** (1h30m) Non-Calculator - 80 Marks
- **Paper 2** (1h30m) Calculator - 80 Marks
- **Paper 3** (1h30m) Calculator - 80 Marks

Tiers

Higher Tier – Grades 9 to 4

Foundation Tier – Grades 5 to 1

Finalised in January of Y11, but ...

Higher Tier
10A1, 10A2, 10A3,
10B1

Foundation Tier
10B2, 10B3, 10B4

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How to help with studies: Maths

Assessment Milestones

Year 10

Term 1
Term 2
Term 3
Term 4
Term 5
Term 6

*Preparation for
Key Stage 4
Assessment 1*

KS4 Assessment 1

*Preparation for
Key Stage 4
Assessment 2*

Year 10 Mock Exams

Year 11

Term 1
Term 2
Term 3
Term 4
Term 5
Term 6

*Preparation for
Key Stage 4
Assessment 3*

1st GCSE Mock Exams

Revision

GCSE Exams

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How to help with studies: Maths

<https://met.midsomernorton.schoolspartnership.com>



What's covered in each Key Stage 4 assessment

What's in each test and what to practice

Video guides and online links for each concept

QR codes in homework link direct to help



GCSE revision resources and past papers

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How to help with studies: Maths MET Reports

Green – Secure Knowledge

Red – Areas to Develop
Hyperlinked to MET Website

Grey – Not yet assessed

Emailed to students and
parents after each
assessment milestone

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<Name>

10 October 2022

Beechen Cliff
Mathematics

What does this report mean?

Current MET: 67

Flight Path: M

Target MET: 92

Target Flight Path: M+

Number & Ratio

Algebra & Graphs

Geometry & Measure

Probability & Statistics

12 MET skills secure above 72

71

Find the powers or reciprocal of whole numbers	Use and interpret an equation or graph for direct or inverse proportion	Use the volume or surface area formulae for cones and spheres	Use a Venn diagram to calculate probabilities of combined events
Reverse percentage change using a multiplier (or otherwise)	Form the equation of a line through two points or through one point with a given gradient	Solve problems requiring multiple steps of SOH CAH TOA trigonometry and/or Pythagoras	Find the combined mean of two sets of data or calculate a new mean when extra data is added
Calculate compound interest using a percentage multiplier	Form the equation of a line by reading the gradient and y-intercept and use $y = mx + c$ form to identify parallel lines	Know the proofs of angles sums in triangles or quadrilaterals	Distinguish between interpolation and extrapolation in line of best fit estimates and comment on reliability
Multiplying or dividing mixed numbers	Find the gradient of a straight line graph and interpret it as a rate of change (eg velocity or acceleration)	Calculating the surface area of a cylinder (or half-cylinder or quadrant) giving answers approximately or in terms of π	Explain that correlation does not imply causation in a given context
Adding or subtracting mixed numbers	Reading roots or solutions from intersections of graphs of linear or non-linear functions	Convert between compound measures and units of area and volume	Complete a tree diagram with independent probabilities and use it to calculate probabilities
Using percentage multipliers for change and understand the effect of multiplying by numbers above or below 1	Reading roots or solutions from intercepts of graphs of non-linear functions	Solve density-mass-volume or pressure-force-area problems	Define independent and calculate the probability of independent events both happening
Expressing a change as a percentage	Simplifying expressions by applying index laws more than once or to several terms	Solve problems requiring either multiple steps of Pythagoras or amending a diagram to locate a right angled triangle	Use data from a sample to estimate properties of the population and explain how bias might influence these estimates
Calculate compound interest using repeated percentage change	Derive and solve simultaneous equations from word problems	Calculate lengths in similar 2D shapes	Define random sample and explain a method of selecting a random sample
Calculate with numbers in standard form using a calculator	Solving linear simultaneous equations by elimination	Calculating the arc length or area of a sector	Compare distributions of data by referring to averages and spread
Converting small numbers to and from standard form	Solving quadratic equations by factorising (unitary coefficient of x^2)	Use SOH CAH TOA trigonometry to calculate angles in right-angled triangles	Calculate the mean from a grouped frequency table

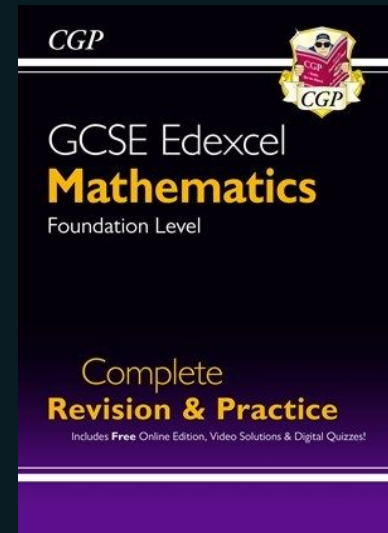
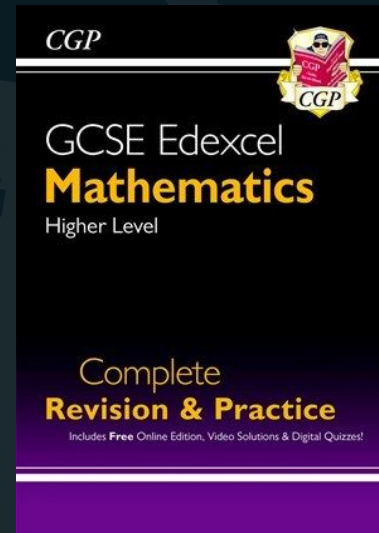
17 MET skills absent (or untested) below 63

How to help with studies: Maths

Revision Guides

Lots of guides suited to the **Edexcel 1MA1 Maths** course are available.

Details of **CGP Complete Revision and Practice** books will be on your child's Google Classroom shortly



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How to help with studies: Maths

Scientific Calculator

(Casio FX-83GTX or 85GTX recommended)

Black Pen

HB Pencil

Eraser

Ruler (cm & mm)

Protractor

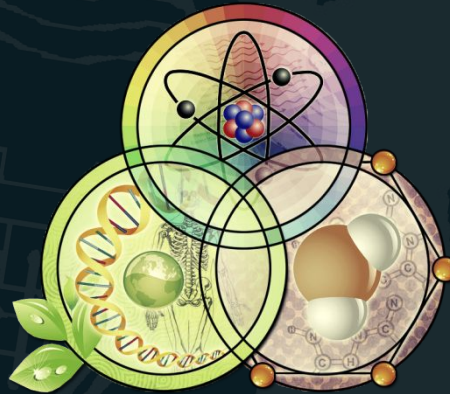
Compass



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Science

Ms R Bala - Head of Science



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How to help with studies: Science

All content is assessed at the end of year 11.
No controlled assessments or coursework.

Required practicals are carried out in class.
Practical skills are assessed through the final examinations.

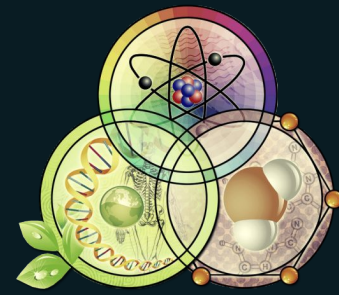
Significant emphasis is placed on maths skills (Biology: 10%)
(Chemistry: 20%)
(Physics: 30%)

In Physics, the majority of equations (21 for Combined Science) need to be learned.

Terminal exams need a consistent approach from pupils.

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How to help with studies: Science



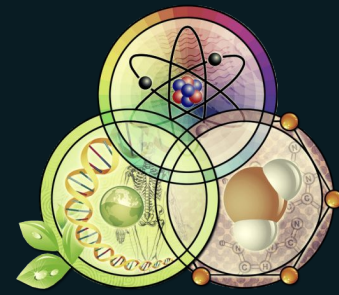
Routes through Science

Combined Science - Trilogy (8464)
(Classes C1 - C5)

- AQA Combined Science – Trilogy
- Pupils still study Biology, Chemistry and Physics
- 2 x 1hr15 exams **per subject** at the end of year 11.
- Less content to learn and shorter exams. More time available in year 11 to revise.
- Pupils will get two GCSE grades for Combined Science.
- E.g. 8,8 or 7,7 or 7,6 (maximum one grade difference).
- Taught by two Science teachers in blocks to cover all three Sciences.

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How to help with studies: Science

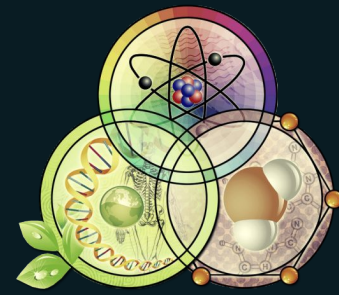


Separate Sciences (Classes: S1 & S2)

- AQA Biology (8461), Chemistry (8462) and Physics (8463)
- 2 x 1hr45 exams **per subject** at the end of year 11.
- This will result in a separate grade for each, e.g. Biology: 8, Chemistry: 7, Physics: 9.
- Separate Biology, Chemistry & Physics lessons each week, each with a subject specialist.
- Good preparation for A-Level Science.

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How to help with studies: Science



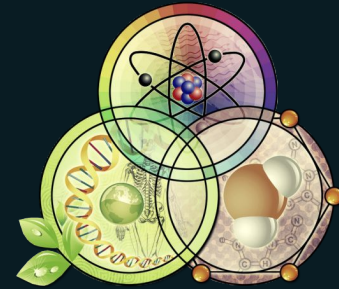
The route your son is currently on may change.

Students may be moved from Separate Sciences to Combined Science.

Setting arrangements are continuously monitored, particularly following key assessments.

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How to help with studies: Science



Resources:

Kerboodle

Online digital textbooks

- Each pupil has their own login.
- Textbook available at home.
- Should be referred to before assessments and whilst completing homework.
- Parents can see what is being covered.

P12.5 X-rays in medicine

Learning objectives
After this topic, you should know:

- what X-rays are used for in hospitals
- why X-rays are dangerous
- what absorbs X-rays when they pass through the body

Have you ever broken one of your bones? If you have, you will have gone to visit a hospital to get an X-ray photograph. X-rays are high-energy waves that do not penetrate the tissues of the body. They are produced when fast-moving electrons hit a target. These electrons are shot out of atoms in the filament of an X-ray tube. To make an X-ray, an X-ray tube is used. X-rays from an X-ray tube are directed at the patient. A light-proof cassette containing a photographic film or a digital detector is placed on the other side of the patient.

When the X-ray tube is switched on, X-rays from the tube pass through the part of the patient's body under investigation (Figure 1). Some X-rays pass through soft tissue, but they are absorbed by bones and metal objects that are not too thin. The parts of the film or the detector that the X-rays reach become darker than the other parts. So, the bones appear lighter than the surrounding tissue on the developed film (Figure 2). The radiologist sees a negative image of the bones. A doctor can easily see a cast of bones as a dark shape in the bright image of the soft tissue.

The X-ray image can be stored on a film or a digital detector. The X-ray image is called a **contrast medium** (not absorb X-ray easily). It makes the internal surfaces of the organ in the body on the X-ray image. For example, to obtain an X-ray image of the stomach, the patient is given a substance called **barium** to swallow. Barium is a good absorber of X-rays.

X-ray pictures can also be used to see the internal organs of the body. When a patient is lying in a hospital, the X-ray image of the patient's body is taken. A gas balloon in the patient's chest is used because it is a good absorber of X-rays.

A lateral X-ray is a small section of the body. It contains a **charge-coupled device (CCD)**. The sensors in the CCD convert X-rays into light. The light rays then create electronic signals in the sensors that are sent to a computer which displays a digital X-ray image.

Radiation dose
X-rays are dangerous. They can cause damage to the cells in the body. The radiation dose is a measure of the damage done to the body by ionising radiation. The radiation dose depends on:

- the type of radiation used
- how long the body is exposed to it
- the average mass of the body that is exposed to the radiation

For example, a person who has an X-ray of the chest will have a radiation dose of about 0.02 mSv. This is a small dose. The radiation dose is measured in mSv (millisieverts). The radiation dose is measured in mSv (millisieverts). The radiation dose is measured in mSv (millisieverts).

X-ray therapy
Doctors use X-ray therapy to destroy cancerous tumours in the body. The X-rays between the X-ray tube and the body pass through soft tissue and reach the cancerous tumour. The X-rays pass through soft tissue and reach the cancerous tumour. The X-rays pass through soft tissue and reach the cancerous tumour.

Study tip
1. Explain what a contrast medium is used for when an X-ray photograph of the stomach is taken. (2 marks)
2. Describe how an X-ray tube is used for X-ray therapy. (2 marks)
3. Explain why X-rays are used for X-ray therapy. (2 marks)
4. Explain why X-rays are used for X-ray therapy. (2 marks)

Key points

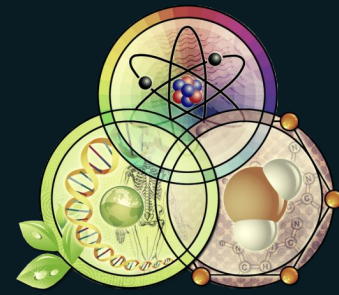
- X-rays are used in hospitals
- To make images of your internal body parts
- X-rays are ionising radiation and so can damage living tissue when they pass through it
- X-rays are absorbed more by bones and teeth than by soft tissues


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How to help with studies: Science

Website, homework and revision resources

<http://bit.ly/BCS-Science>





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Year 9 Science

Students begin studying GCSE science in year 9. All students will cover topics in Biology, Chemistry and Physics and will be given separate exercise books for each. All pupils cover the same content at this stage and whether or not a pupils continue to study separate or combined science will depend upon their progress in year 9.

We follow the AQA Separate Sciences and Combined Science (Trilogy) specifications. The GCSE uses the new 9-1 grading system and builds upon the knowledge and skills taught in years 7 and 8.

Class teaching schedule 2016-17


Topics

Biology:
B1 Cell structure and transport
B2 Cell division
B3 The digestive system
B4 Organising animals and plants

Chemistry:
C1 Atomic structure
C2 The Periodic Table
C3 Structure and bonding

Physics:
P1 Conservation of energy
P2 Heat transfer
P3 Energy resources
P6 Molecules and matter

Online textbooks and resources

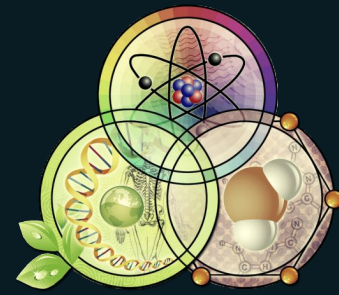


Click the image to log in using the same details as you have used in years 7 and 8 to access the textbooks.

[Biology homework](#) [Chemistry Homework](#) [Physics homework](#)

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How to help with studies: Science



Assessments:

Termly internal assessments, end of year 10 mock exams.

Look at the learning checklists (on Google classroom) to see what will be tested.

Use textbook/revision guide.

Complete all online homework tasks.

Make glossaries and learn key terms.

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Thank you!

All slides will be on the website tomorrow

Contact - headteacher@beechencliff.org.uk

Follow us on twitter - @BeechenCliff

Get involved with the PTA! - ptabeechen@yahoo.com

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