

Welcome to Key Stage 4

Year 10: Supporting Success

Ready. Respect. Safe.



Schedule for the evening

5:15pm: Welcome - Mr Doodson

5:20pm: What should I expect from Key Stage 4? - Miss Greenhough

5:40pm: How do we support your child to achieve? - Mr Yates

5:50pm: How to support success in English, Mathematics and Science

6:00pm: Post-16 options and work experience – Mrs Adams

6:15pm: Next steps and close – Miss Greenhough



Welcome

Mr Doodson



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What should I expect from Key Stage 4?

Miss Greenhough



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**You have one chance at your
education, and we have a
duty to make it count.**



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What should I expect from Key Stage 4?

Meet the team



Mrs Rathbone
Head of Year



Mrs Adams
Key Stage 4
Achievement
Director



Mr Yates
Assistant
Headteacher

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Level Equivalent	New Grade	Previous Grade
Level 2 equivalent	9	A*
	8	A
	7	B
	6	C
	5 Strong pass	
	4 Standard pass	
Level 1 equivalent	3	D
	2	E
	1	F
		G
	U	U

**What should
I expect
from Key
Stage 4?**

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What should I expect from Key Stage 4?

AQA GCSE Physics: Physics for You : Mapping Document

AQA GCSE Physics specification (new GCSE)		Page numbers in Physics for You
The page numbers shown in the right-hand column refer to the Updated New Physics for You Students' Book (ISBN 978-1-4085-0922-7). In addition there are many printable Help & Extension Sheets in the Kerboodle book (ISBN 978-1-4085-0919-7)		
Unit 1 Physics 1		
P1.1 The transfer of energy by heating processes and the factors that affect the rate at which that energy is transferred	Energy can be transferred from one place to another by work or by heating processes. We need to know how this energy is transferred and which heating processes are most important in a particular situation.	
P1.1.1 Infrared radiation	a) All objects emit and absorb infrared radiation.	page 46
	b) The hotter an object is the more infrared radiation it radiates in a given time.	46
	c) Dark, matt surfaces are good absorbers and good emitters of infrared radiation.	47, 50
	d) Light, shiny surfaces are poor absorbers and poor emitters of infrared radiation.	47
	e) Light, shiny surfaces are good reflectors of infrared radiation.	47 – 51
P1.1.2 Kinetic theory	a) The use of kinetic theory to explain the different states of matter.	16 – 20
	b) The particles of solids, liquids and gases have different amounts of energy.	18 – 20
P1.1.3 Energy transfer by heating	a) The transfer of energy by conduction, convection, evaporation and condensation involves particles, and how this transfer takes place.	40-5, 56
	b) The factors that affect the rate of evaporation and condensation.	56
	c) The rate at which an object transfers energy by heating depends on: - surface area and volume - the material from which the object is made - the nature of the surface with which the object is in contact.	41 – 52
	d) The bigger the temperature difference between an object and its surroundings, the faster the rate at which energy is transferred by heating.	47

AQA GCSE specification
Teaching from 2011

Physics for You

page 1 of 18

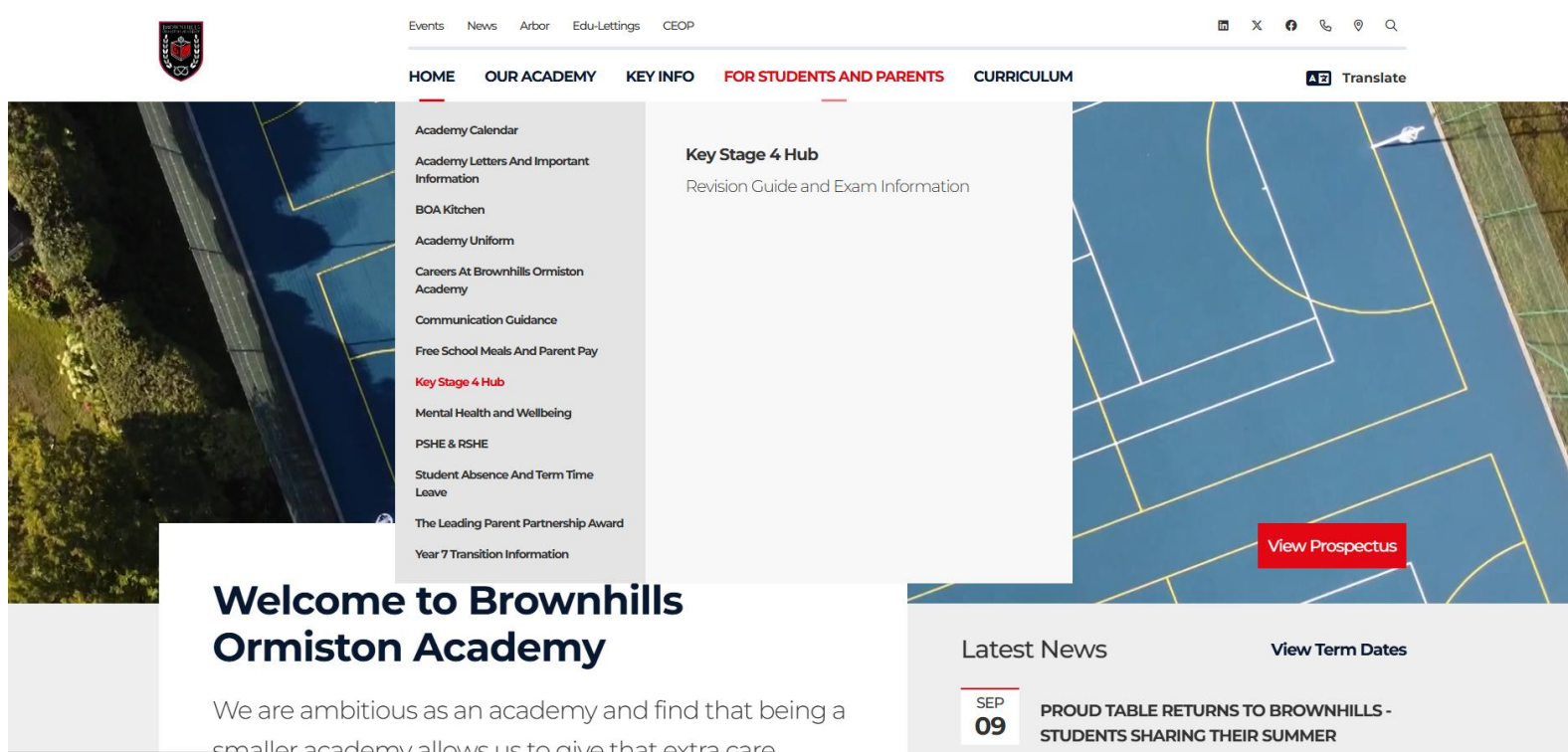
GCSE specifications

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What should I expect from Key Stage 4?

Key Stage 4 Hub



The screenshot displays the website of Brownhills Ormiston Academy. At the top, there is a navigation bar with links for Events, News, Arbor, Edu-Lettings, and CEOP. Below this is a secondary navigation bar with links for HOME, OUR ACADEMY, KEY INFO, FOR STUDENTS AND PARENTS (highlighted), and CURRICULUM. A search bar and a 'Translate' button are also present. The main content area is divided into two columns. The left column contains a list of links: Academy Calendar, Academy Letters And Important Information, BOA Kitchen, Academy Uniform, Careers At Brownhills Ormiston Academy, Communication Guidance, Free School Meals And Parent Pay, Key Stage 4 Hub (highlighted in red), Mental Health and Wellbeing, PSHE & RSHE, Student Absence And Term Time Leave, The Leading Parent Partnership Award, and Year 7 Transition Information. The right column features a 'Key Stage 4 Hub' section with the text 'Revision Guide and Exam Information' and a red 'View Prospectus' button. Below this, there is a 'Latest News' section with a date 'SEP 09' and the headline 'PROUD TABLE RETURNS TO BROWNHILLS - STUDENTS SHARING THEIR SUMMER'. A 'View Term Dates' link is also visible. The background of the website features an aerial view of a blue sports field. A large banner at the bottom left reads 'Welcome to Brownhills Ormiston Academy' and 'We are ambitious as an academy and find that being a smaller academy allows us to give that extra care'.

Events News Arbor Edu-Lettings CEOP

HOME OUR ACADEMY KEY INFO **FOR STUDENTS AND PARENTS** CURRICULUM

Translate

Academy Calendar
Academy Letters And Important Information
BOA Kitchen
Academy Uniform
Careers At Brownhills Ormiston Academy
Communication Guidance
Free School Meals And Parent Pay
Key Stage 4 Hub
Mental Health and Wellbeing
PSHE & RSHE
Student Absence And Term Time Leave
The Leading Parent Partnership Award
Year 7 Transition Information

Key Stage 4 Hub
Revision Guide and Exam Information

View Prospectus

Welcome to Brownhills Ormiston Academy
We are ambitious as an academy and find that being a smaller academy allows us to give that extra care

Latest News
SEP 09 **PROUD TABLE RETURNS TO BROWNHILLS - STUDENTS SHARING THEIR SUMMER**

View Term Dates

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What should I expect from Key Stage 4?



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How do we support your child to achieve their potential?

Mr Yates



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Supporting Progress in Key Stage 4

First-rate, quality first teaching from an experienced and highly-skilled team
We are currently celebrating our highest ever achievement at Key Stage 4



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Supporting Progress in Key Stage 4

- Setting of students in Mathematics, English and Science
- Lesson 0 (PT groups): Year 10 English, Year 11 Mathematics or Science
- Home Learning
- Arbor communication
- Learning and culture walks by senior members of staff
- Work scrutiny
- Celebration and rewards
- Reading (Lexonic) and other interventions
- Careers Fair and careers activities



Supporting Progress in Key Stage 4

- Revision lists published and support given(start of November)
- **Autumn Assessments** in lessons(23rd Nov to 4th Dec)
- **Mathematics and English examinations** in Exam Rooms (30th Nov and 1st Dec)
- Progress data reports published to students and parents (Jan 2027)
- Staff update curriculum plans to support progress
- Wave 2 interventions begin to support students with gaps identified
- Set changes in Mathematics, English and Science (8th Feb 2027)
- **Yar 10 Parents Evening 4th February 2027**



Supporting Progress in Key Stage 4

- Revision lists published and support given (start of March)
- Lesson 6 begins for three weeks (Monday Science, Wednesday English, Thursday Mathematics) – extra coach, 3:10 to 4pm
- **End of Year 10 Examinations** (19th April to 30th April)
- Exam breakfasts and warmups
- Progress data reports published to students and parents (end of May 2027)
- Wave 2 interventions begin to support students with gaps identified



GCSE

English Literature and

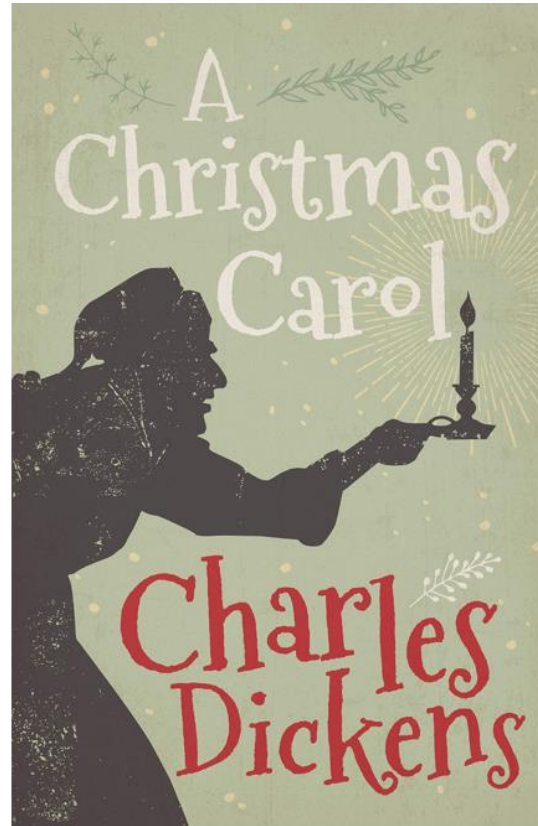
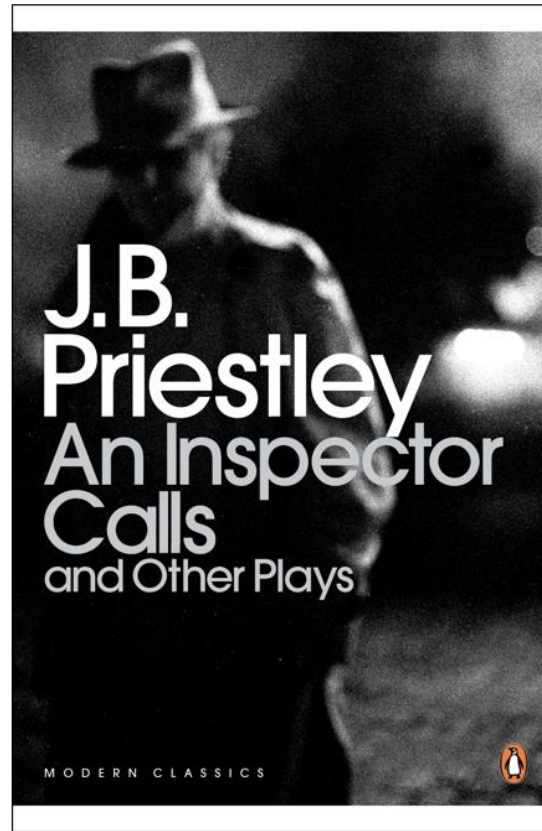
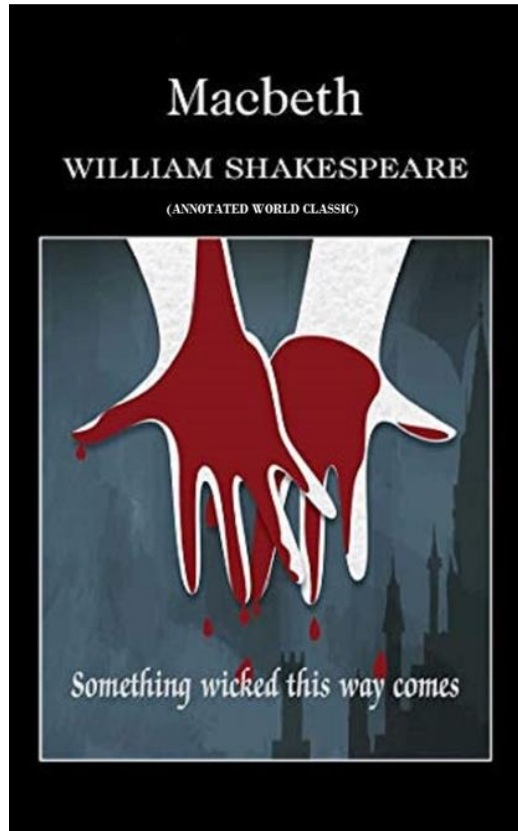
English Language

Mrs Baker



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English Literature: AQA



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English Literature: AQA

Paper 1: Shakespeare and the 19th-century novel (A Christmas Carol)

- 1h 45m, 64 marks, 40% of the GCSE
- Extract + whole-text questions for both texts.

Paper 2: Modern texts and poetry

- 2h 15m, 96 marks, 60% of the GCSE
- Essay on modern text (An Inspector Calls), comparative poetry question, unseen poetry analysis and unseen poetry similarities and differences.
- AIC you get to choose your question from two options.

English Language: AQA

Paper 1: Explorations in Creative Reading and Writing

One literature fiction text, 1 hour 45 mins, 80 marks, 50% of GCSE

Reading (40 marks) (25%) – one single text

- 1 short form question (1 x 4 marks) multiple choice
- 2 longer form questions (2 x 8 marks) language and structure
- 1 extended question (1 x 20 marks) evaluation

Writing (40 marks) (25%)

- 1 extended writing question (24 marks for content, 16 marks for technical accuracy) description or story with image to support

English Language: AQA

Paper 2: Writers' Viewpoints and Perspectives

One non-fiction text and one literary non-fiction text, 1 hour 45 mins, 80 marks, 50% of GCSE

Reading (40 marks) (25%) – two linked texts

- 1 short form question (1 x 4 marks) select 4 statements
- 2 longer form questions (1 x 8, 1 x 12 marks) inference similarities/differences and language
- 1 extended question (1 x 16 marks) comparison

Writing (40 marks) (25%)

- 1 extended writing question (24 marks for content, 16 marks for technical accuracy) transactional writing with statement provided

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English Past Papers: AQA

[AQA GCSE English Literature Past Papers - Revision World](#)

[GCSE English 8702 | Specification | Subject Content | AQA](#)

[AQA GCSE English Language Past Papers - Revision World](#)

[GCSE English 8700 | Specification | Specification At A Glance | AQA](#)

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English Intervention

The best intervention we offer as a department is **everyday in the classroom in lessons.**

If you are in school, you are getting the best opportunity at being successful in your English GCSEs.

We will be offering lesson 6 in the build up to PPEs (mock exams).

We also do masterclasses as another layer of support.

There is always an English teacher available if you ever need any help, support or guidance regarding Literature or Language GCSEs.

Home Learning

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GCSE Mathematics

Miss Gilbert



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GCSE Maths – What to Expect



Pearson
Edexcel

- Exam board is **Edexcel**
- There are **two tiers**:
 - **Foundation** – Up to a grade 5
 - **Higher** – Up to a grade 9
- There are **three papers**:
 - Paper 1 **Non-Calculator** (1 hour 30 minutes, 80 marks)
 - Paper 2 **Calculator** (1 hour 30 minutes, 80 marks)
 - Paper 3 **Calculator** (1 hour 30 minutes, 80 marks)
- **Any topic** from **any strand** can appear on **any paper**:

• Number	~25% F	~15% H
• Algebra	~20% F	~30% H
• Ratio & Proportion	~25% F	~20% H
• Geometry & Measures	~15% F	~20% H
• Statistics and Probability	~15% F	~15% H

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GCSE Maths – What to Expect



- All three papers are designed to make you feel successful as soon as you open the paper – they progressively get more challenging
- Types of questions to expect

1 Write $\frac{3}{10}$ as a percentage.

2 Write the following numbers in order.
Start with the smallest number.

8 -7

21 The functions f and g are such that

$f(x) = 3x^2 + 1$ for $x > 0$ and $g(x) = \frac{4}{x^2}$ for $x > 0$

(a) Work out $gf(1)$

The function h is such that $h = (fg)^{-1}$

(2)

(4)

(Total for Question 21 is 6 marks)



GCSE Maths – Past Papers

- Your teachers – homework
- Hannah Kettle Maths - [Past Papers | Enhance Your Learning Today — Hannah Kettle Maths](#)
- Corbett Maths - [GCSE Maths Revision Resources – Corbettmaths](#)
- Maths Genie - [Edexcel GCSE Maths Past Papers | MathsGenie](#)



Pearson
Edexcel



Corbett
mαths

Maths Genie



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GCSE Maths – Intervention

- In the **classroom** (x4 per week)
- **Period 6** – closer to PPEs
- **Masterclasses**
- Your maths **teacher**
- **Homework:**
 - Sparx (content)
 - Half Papers
 - **Not using AI!**



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GCSE Maths – Calculators

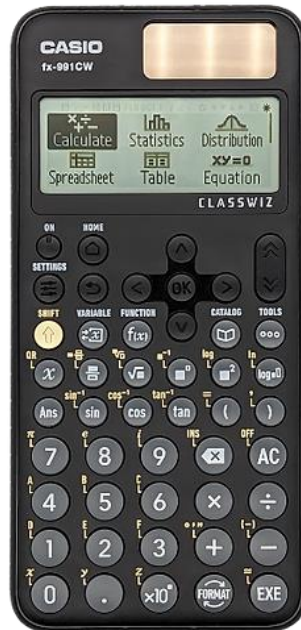
- There are **three papers**:
 - Paper 1 **Non-Calculator** (1 hour 30 minutes, 80 marks)
 - Paper 2 **Calculator** (1 hour 30 minutes, 80 marks)
 - Paper 3 **Calculator** (1 hour 30 minutes, 80 marks)
- Two thirds of the course requires a calculator



Pearson
Edexcel

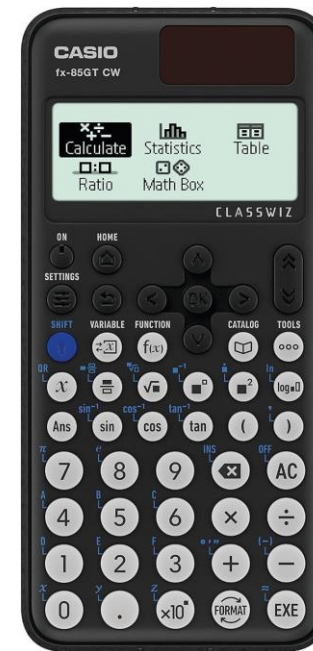
Casio fx-991 CW

~£25 on Amazon



Casio fx-85GTCW

~£15 on Amazon



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Science at KS4

Brownhills Ormiston Academy

As scientists we are ready to thrive in our world, respect our environment and all living things within it and to make safe, informed choices throughout.

Mrs McGowan



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AQA GCSE Science Exams

Combined students



2 GCSE grades will be awarded



Grades are calculated on an average of biology, chemistry and physics



6 exams, 70 marks, 75 minutes each

Separate science students



3 separate GCSE grades will be awarded



GCSE grades are completely independent



6 exams, 100 marks, 1hr 45 minutes each

Trilogy



What are the exam questions?

Heart muscle cells contain many mitochondria.

Explain why heart muscle cells contain many mitochondria.

✓ All have multiple choice

A student investigated whether using the right hand or the left hand had an effect on reaction time.

This question is about digestion.

The student only tested

-

(a) Name the enzyme that digests starch in the human digestive system.

-

Describe a method

(3)

Include details of the test you would use for reaction time.

✓ All ask about required practicals



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[OAT Student Resources](#)[OAT English Student Resources](#)[OAT Maths Student Resources](#)[OAT Science Student Resources](#)

OAT Science Student Revision Hub



Simon Shanks
Senior Lead Practitioner - Science

Welcome to the Ormiston Academies Trust Science Revision Hub.

This site is designed to support you in your GCSE Science revision by providing links to content curated by a team of experts.

Each of the sciences has been broken down by paper and then by topic to allow for easy navigation. You can navigate to your chosen revision topic using the menu at the top or the buttons below. In each topic you will find a range of resources, such as exam questions, quizzes and short videos.

Practice questions and past papers

Using practice questions and past papers

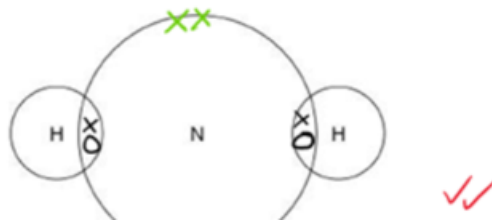
A large part of your revision, both inside and outside of lessons, will be using sets of practice questions (like those available on this site) or using whole past papers.

Answering practice questions is a very useful tool for ensuring confidence for your exams, but there are other ways that these can be used to help make your revision more impactful and more efficient.

Pen 1 Pen 2 Pen 3

Q1. Nitrogen reacts with hydrogen to produce ammonia (NH_3).

(a) Complete the dot and cross diagram for an ammonia molecule.



Using three different pen colours

When answering a practice question pack, make sure you have 3 different colours pens. You will go through the questions 3 times.

On the first run through the questions, use the first coloured pen.

During this run through, you will answer the questions as well as you can without using anything to help you (such as the mark scheme, revision guide or knowledge organiser).

On the second run through the questions, use a different coloured

Knowledge and skills revision

Revise knowledge

Biology paper 1

Chemistry paper 1

Physics paper 1

Biology paper 2

Chemistry paper 2

Physics paper 2



Cells



Unit conversions

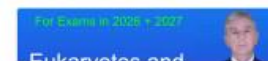


Microscopes and magnification



Types of microscope

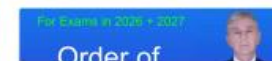
Freesciencelessons revision videos



Eukaryotes and Prokaryotes



Sizes of Microscopes



Order of Magnification

Revise skills

Maths in science

Plotting Graphs

Tangents (HT)

Extended Response

Explain questions

Compare questions

Applying the equation sheet

Multi-step calculations (HT)

Student Examiner booklets

Required Practical

AO3 Paper 1 Exam questions

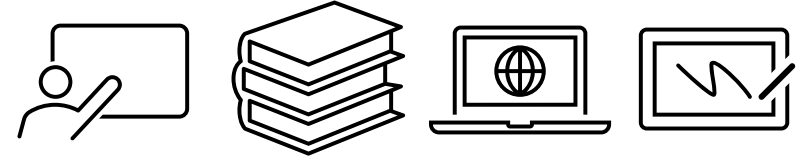
Exam Questions

Cell biology practice questions SET A

Cell biology practice questions SET B

Cell biology practice questions SET C

What can students do to prepare?



- ✓ Pay attention and take good quality notes in class.
- ✓ Actively participate in all lessons, including lesson 6.
- ✓ Complete all home learning activities.
- ✓ Start revising now if you haven't already (small and often).
- ✓ Use revision topic lists provided by your teachers to plan independent revision.



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Where can students go for help?



- ✓ You can ask any science teacher for help and support
- ✓ Attend lesson 6
- ✓ Use OAT revision hub website



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Work experience and Post-16

Mrs Adams



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Year 10 Work Experience – Week Commencing 25th January 2027

- During this week, students will take part in a **work placements** to gain an experience of the workplace.
- **They will need to organise** a work placement(s) with an employer of your choice.
- Student will **complete a reflection and evaluation** based on your experience and consider how this has shaped their future choices.

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Year 10 Work Experience – Week Commencing 25th January 2027

- If they do not secure a placement(s) they must be in school.
- **So why are you letting them have multiple placements on any day that week?**
- To give them the best chance possible of securing a work experience placement.
- If they do not get the relevant electronic paperwork completed **online**, they will be required in school.

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Year 10 Work Experience – The process

1. **Students will need to contact potential employers** to request a work placement. They can do this via school email, letter, telephone or in person.
2. Once students have confirmed their placement with an employer, **they** will need to use **Unifrog** to enter in the **employers' information**. This will then email the employer to gather information for a risk assessment and their insurance details.
3. Students will also need your details.
3. Parents/Guardian will be contacted via Unifrog to sign off consent for your child to take part.
4. Finally, **the school** will check off on Unifrog that it meets the safety threshold.
5. Student, parent/guardian and placement provider will all receive a confirmation email giving permission for the placement to go ahead.

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What should they be doing now? – Contacting Employers

It can be really nerve-wracking contacting employers to ask them for work experience.

- They may choose to do a work placement based on their interests or future careers ideas.
- They could choose a work placement based on locality, convenience and ease of travel.
- They can also email jadams@brownhillsoa.co.uk to request help if they're stuck and can't find an employer to approach.

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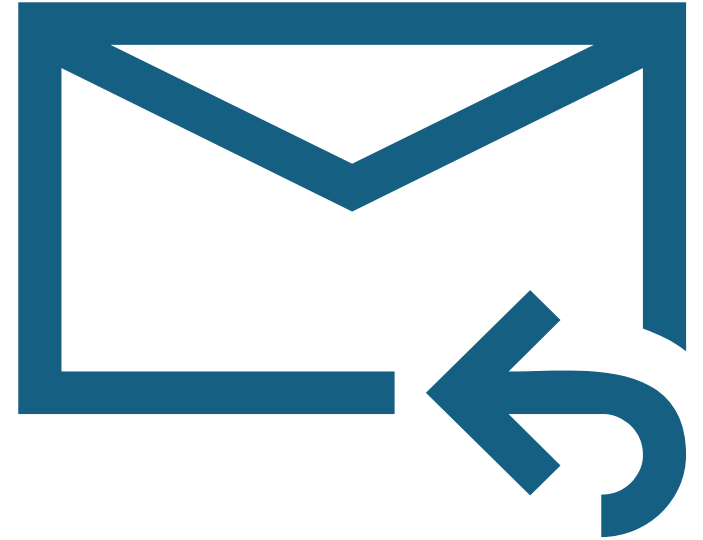
Where do I go for Support?

- See Mrs Adams

- Email Mrs Adams

jadams@brownhillsoa.co.uk

- Careers Drop in - Every Monday
Lunchtime in the library



Next steps

Miss Greenhough

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