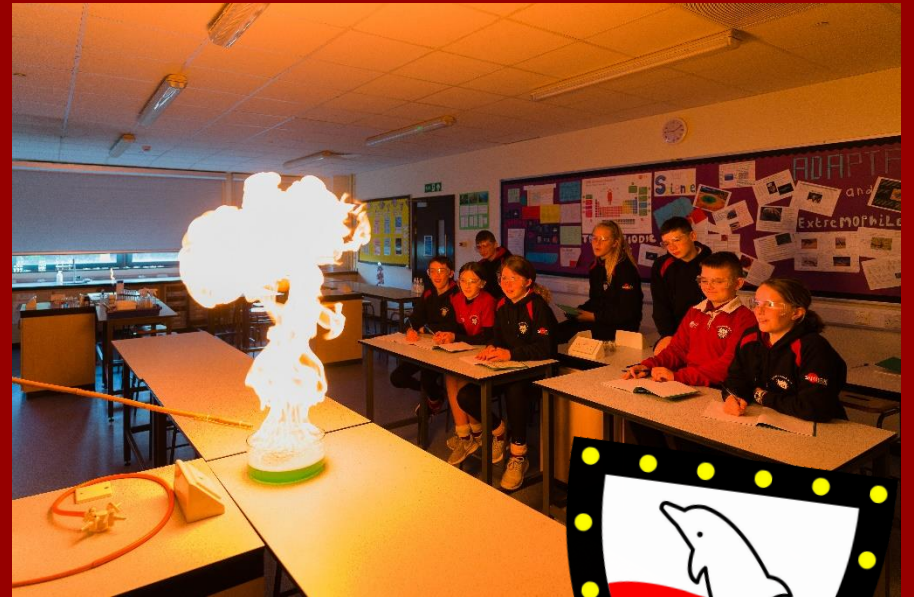


Welcome

GCSE Combined Science Revision





Exam Board: AQA

Course: **GCSE Combined Science**
TRILOGY 8464

AQA TRILOGY: GCSE Combined Science Exams

11th May 2027

Biology

Paper 1

70 marks

1 hour 15 min

17th May 2027

Chemistry

Paper 1

70 marks

1 hour 15 min

25th May 2027

Physics

Paper 1

70 marks

1 hour 15 min

10th June 2027

Biology

Paper 2

70 marks

1 hour 15 min

15th June 2027

Chemistry

Paper 2

70 marks

1 hour 15 min

18th June 2027

Physics

Paper 2

70 marks

1 hour 15 min

Biology Paper 1

B1 = Cell structure and transport
B2 = Cell division
B3 = Organisation and the digestive system
B4 = Organising animals and plants
B5 = Communicable diseases
B6 = Preventing and treating disease
B7 = Non-communicable diseases
B8 = Photosynthesis
B9 = Respiration

Chemistry Paper 1

C1 = Atomic structure
C2 = The periodic table
C3 = Structure and bonding
C4 = Chemical calculations
C5 = Chemical changes
C6 = Electrolysis
C7 = Energy Changes

Physics Paper 1

P1 = Conservation and dissipation of energy
P2 = Energy transfer by heating
P3 = Energy resources
P4 = Electric circuits
P5 = Electricity in the home
P6 = Molecules and matter
P7 = Radioactivity

Biology Paper 2

B10 = The human nervous system
B11 = Hormonal co-ordination
B12 = Reproduction
B13 = Variation and evolution
B14 = Genetics and evolution
B15 = Adaptations,
interdependence and
competition
B16 = Organising an ecosystem
B17 = Biodiversity and
ecosystems

Chemistry Paper 2

C8 = Rates and
equilibrium
C9 = Crude oil and fuels
C10 = Chemical analysis
C11 = The Earth's
atmosphere
C12 = The Earth's
resources

Physics Paper 2

P8 = Forces in balance
P9 = Motion
P10 = Forces and
motion
P11 = Wave properties
P12 = Electromagnetic
waves
P13 =
Electromagnetism

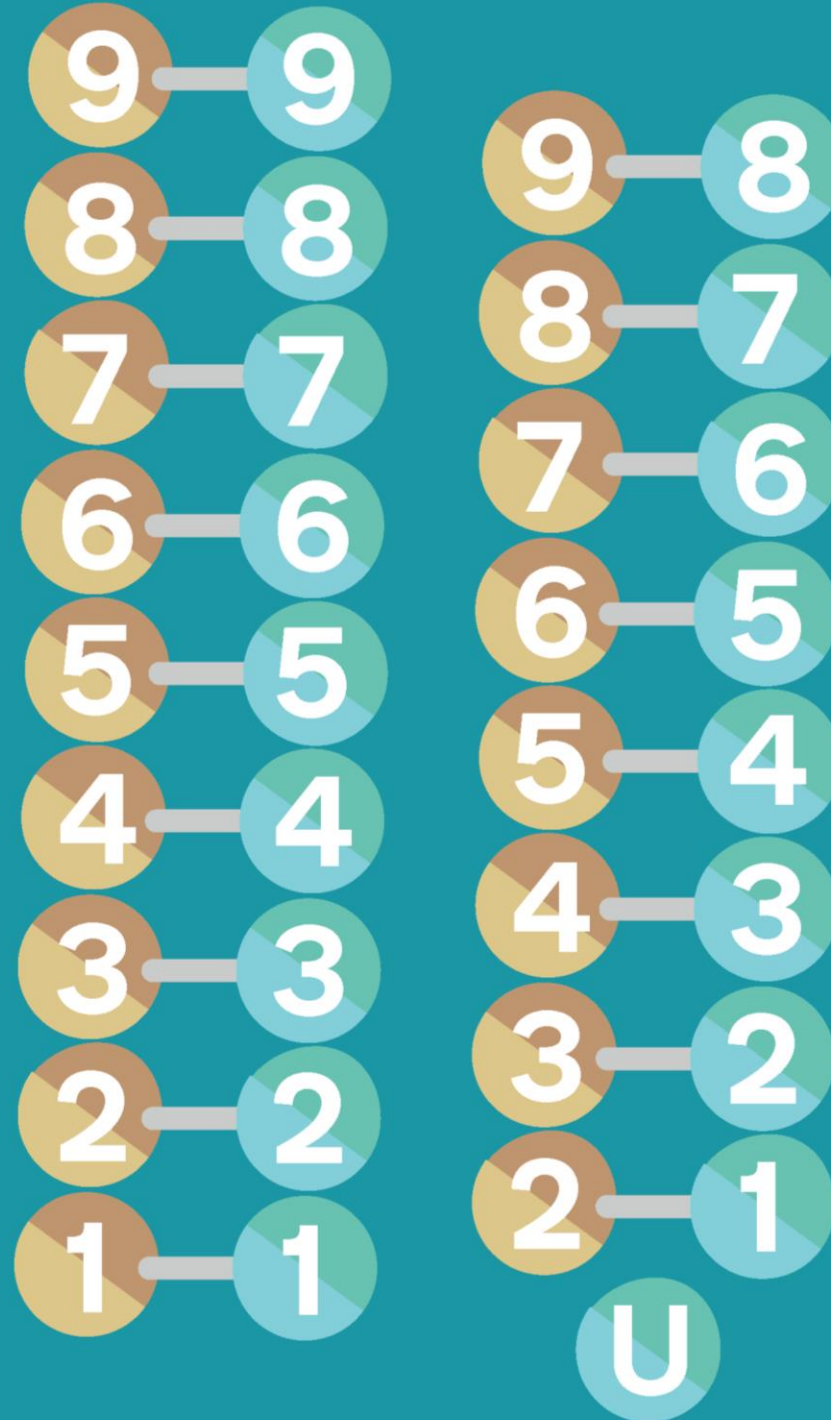
GCSE Combined Science

Double Award Grading System

Students sit all 6 exams at the end of Year 11.

The scores from all 6 papers are added up to give a mark out of 420.

This score generates the science double award grade.



Tiers of Entry

Higher Tier - Students can be awarded grades from 9-9 to 4-3

Foundation tier - Students can be awarded grades from 5-5 to 1-1



Year 11 Mock Exams

Week commencing:
Monday 2nd
November

Paper 1 Biology
Paper 1 Chemistry
Paper 1 Physics

Week commencing:
Monday 22nd
February

Paper 2 Biology
Paper 2 Chemistry
Paper 2 Physics

GCSE Combined Science: Trilogy ⁸⁴⁶⁴

Specification Planning resources Teaching resources **Assessment resources** Key dates

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< 1 2 3 4 >

Relevance

Items per page 10

Search resources



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Resource Type



- ☐ Centre Declaration Forms (4)
- ☐ Examiner Reports (51)
- ☐ Examiners Reports (12)
- ☐ Grade Descriptors (1)
- ☐ Mark Schemes (86)
- ☐ Notes and Guidance (4)
- ☐ Practice Questions (2)
- ☐ Question Papers (313)

Component Code



Using our assessment tools to plan and teach

/resources/assess/using-our-assessment-tools



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Biology - Question paper (Foundation) : Paper 1 Biology - June 2023

Published 07 Dec 2024 | 1.58 MB | PDF



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Science - Question paper (Higher): Paper 1 Biology - June 2024

Published 11 Jul 2025 | 1.85 MB | PDF



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NEW



Science - Question paper (Higher): Paper 1 Physics - June 2024

Published 11 Jul 2025 | 1.91 MB | PDF



Add to favourites

NEW



Science - Question paper (Higher): Paper 1 Chemistry - June 2024



NEW

Mixture of multiple choice, structured, closed short answer, and open response.

There are 21 Required Practicals across the 3 disciplines. Students will be examined on a selection of these practicals.

Please write clearly in block capitals.

Centre number Candidate number

Surname _____

Forename(s) _____

Candidate signature _____

I declare this is my own work.

F

Friday 9 June 2023 Afternoon Time allowed: 1 hour 15 minutes

For this paper you must have:

- Instructions**
- Use black ink or black ball-point pen.
 - Pencil should only be used for drawing.
 - Fill in the boxes at the top of this page.
 - Answer all questions in the spaces provided.
 - If you need extra space for your answer(s), use the lined pages at the end of this book. Write the question number **against** your answer(s).
 - Do all rough work in this book. Cross through any work you do not want to be marked.
 - In all calculations, show clearly how you work out your answer.

- The maximum mark for this paper is 70.
- The marks for questions are shown in brackets.
- You are expected to use a calculator where appropriate.
- You are reminded of the need for good English and clear presentation in your answers.

For Examiner's Use	
Question	Marks
1	
2	
3	
4	
5	
6	
7	
TOTAL	



8464/B/2F

A student wants to calculate the density of the two objects shown in the figure below.

Metal cube



Small statue

Describe the methods that the student should use to calculate the densities of the two objects.

[illegible]

(Total 6 marks)

Physics Equations Sheet

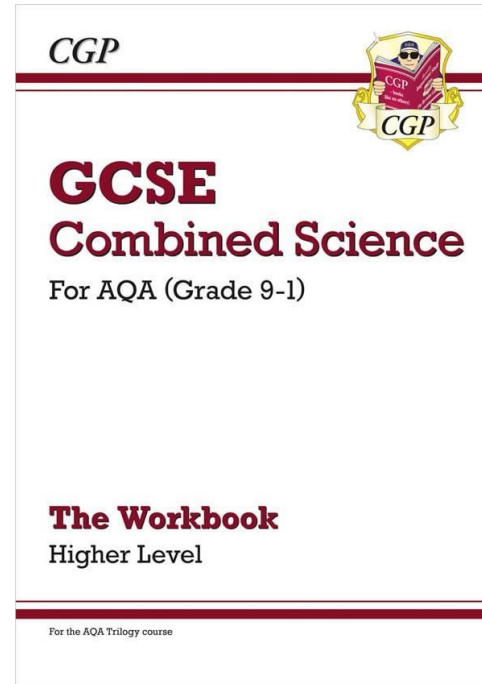
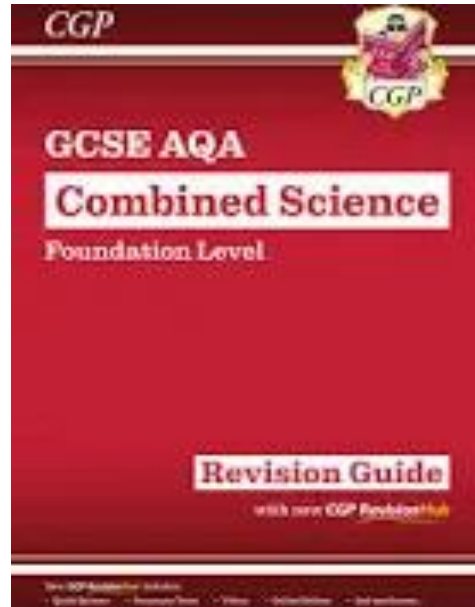
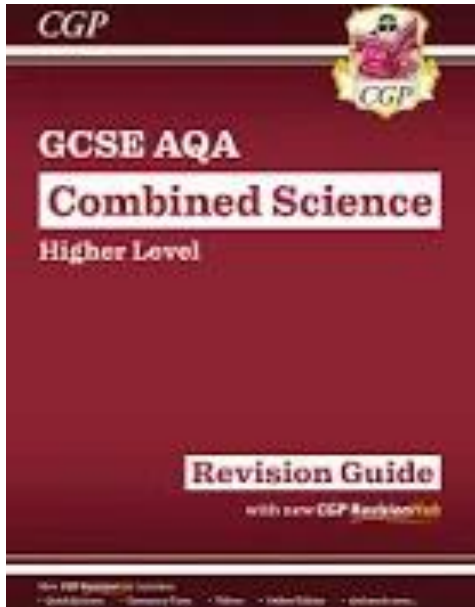
GCSE Combined Science: Trilogy (8464) and GCSE Combined Science: Synergy (8465)

FOR USE IN JUNE 2023 ONLY

HT = Higher Tier only equations

kinetic energy = $0.5 \times \text{mass} \times (\text{speed})^2$	$E_k = \frac{1}{2} m v^2$
elastic potential energy = $0.5 \times \text{spring constant} \times (\text{extension})^2$	$E_e = \frac{1}{2} k e^2$
gravitational potential energy = mass $\times$ gravitational field strength $\times$ height	$E_p = m g h$
change in thermal energy = mass $\times$ specific heat capacity $\times$ temperature change	$\Delta E = m c \Delta \theta$
power = $\frac{\text{energy transferred}}{\text{time}}$	$P = \frac{E}{t}$
power = $\frac{\text{work done}}{\text{time}}$	$P = \frac{W}{t}$
efficiency = $\frac{\text{useful output energy transfer}}{\text{total input energy transfer}}$	
efficiency = $\frac{\text{useful power output}}{\text{total power input}}$	
charge flow = current $\times$ time	$Q = I t$
potential difference = current $\times$ resistance	$V = I R$
power = potential difference $\times$ current	$P = V I$
power = (current) $^2 \times$ resistance	$P = I^2 R$
energy transferred = power $\times$ time	$E = P t$

	energy transferred = charge flow $\times$ potential difference	$E = Q V$
HT	potential difference across primary coil $\times$ current in primary coil = potential difference across secondary coil $\times$ current in secondary coil	$V_p I_p = V_s I_s$
	density = $\frac{\text{mass}}{\text{volume}}$	$\rho = \frac{m}{V}$
	thermal energy for a change of state = mass $\times$ specific latent heat	$E = m L$
	weight = mass $\times$ gravitational field strength	$W = m g$
	work done = force $\times$ distance (along the line of action of the force)	$W = F s$
	force = spring constant $\times$ extension	$F = k e$
	distance travelled = speed $\times$ time	$s = v t$
	acceleration = $\frac{\text{change in velocity}}{\text{time taken}}$	$a = \frac{\Delta v}{t}$
	(final velocity) 2 – (initial velocity) 2 = $2 \times$ acceleration $\times$ distance	$v^2 - u^2 = 2 a s$
	resultant force = mass $\times$ acceleration	$F = m a$
HT	momentum = mass $\times$ velocity	$p = m v$
	period = $\frac{1}{\text{frequency}}$	$T = \frac{1}{f}$
	wave speed = frequency $\times$ wavelength	$v = f \lambda$
HT	force on a conductor (at right angles to a magnetic field) carrying a current = magnetic flux density $\times$ current $\times$ length	$F = B I l$

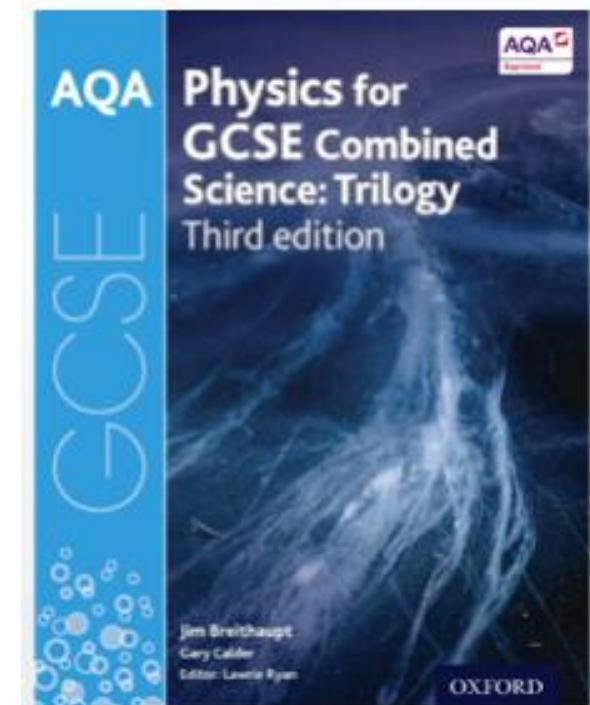
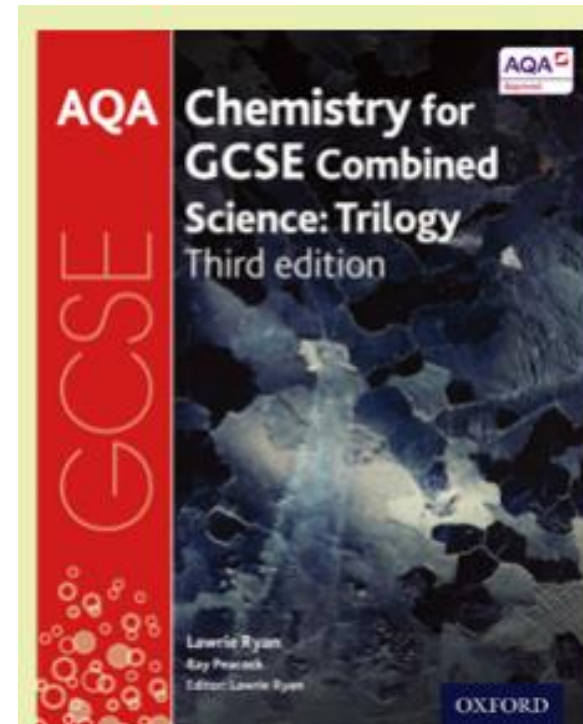


Revision guides available on ParentPay for £7 each

Workbooks also available on ParentPay for £8 each



Online textbooks are available to view on the Kerboodle website



Sparx Science

Personalised
science homework
for every student

The screenshot displays the Sparx Science interface for a student named Adam Smith. The top navigation bar includes the Sparx Science logo, a dropdown menu for '10x/Sc2', a 'Need help?' link, and the student's name. The main content area is titled 'Hand-in' and shows a calendar view of weeks from Week 28 to Week 39. Below this, a table lists homework assignments with columns for Name, Completion, Working time, Completion day, and Answers. The table shows several assignments, some marked as 'Incomplete' and others as 'View'. The bottom section of the interface shows a question about a plant cell diagram. The diagram is a rectangular cell with various organelles labeled A through G. The question asks the student to identify the part of the plant where photosynthesis happens and which label shows this part of the cell. The interface also includes a 'Periodic Table' link and a 'Submit' button.

Sparx Science 10x/Sc2 Need help? Adam Smith

Hand-in

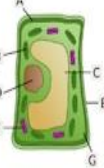
Week 28 28/05/2023 Week 34 1/10/2023 Week 35 24/10/2023 Week 36 01/11/2023 Week 37 08/11/2023 Week 38 15/11/2023 **Week 39 22/11/2023**

Set date/time: Tue 23rd May 9:00 AM Due date/time: Tue 6th Jun 9:00 AM Compulsory completion: 27/30

Name	Completion	Working time	Completion day	Answers
Adam Smith	Incomplete	0h 0m		View
Adam Smith	Incomplete	0h 0m		View
Adam Smith	Incomplete	0h 47m		View
Adam Smith	Complete	1h 26m	2 days early	View
Adam Smith	Complete	0h 56m	1 day early	View
Adam Smith	Complete	0h 46m	1 day early	View
Adam Smith	Complete	0h 42m	Hand-in day	View
Adam Smith	Complete	1h 17m	1 day early	View
Adam Smith	Complete	1h 44m	2 days early	View
Adam Smith	Complete	1h 52m	1 day early	View
Adam Smith	Complete	1h 16m	1 day early	View
Adam Smith	Complete	1h 1m	1 day early	View

Sparx Science Adam Smith

Q1 Q2 Q3 Q4 Q5 Q6 **Q7** Q8 Q9 Q10 Q11 Q12 Q13

7. 

Look at the diagram of a plant cell.

a) Name the part of the plant where photosynthesis happens.

Enter answer...

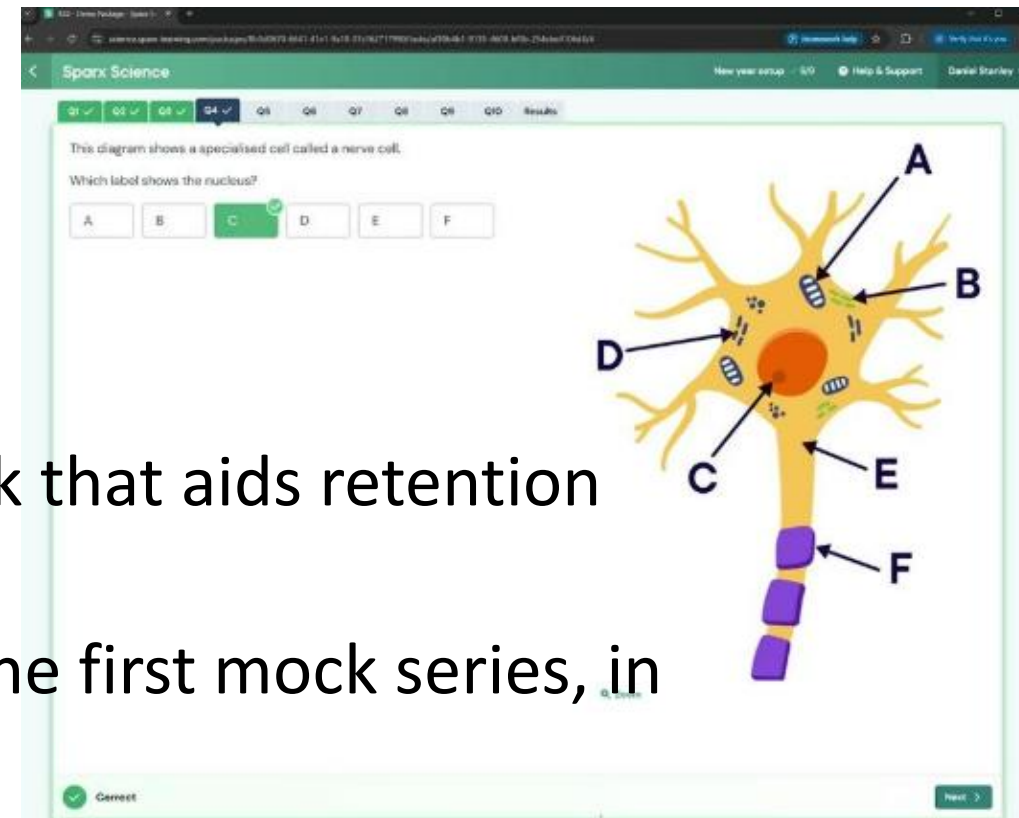
b) Which label shows this part of the cell?

A B C D E F

I don't know Periodic Table Submit

What is Sparx Science?

- Sparx Science provides personalised homework that aids retention and recall.
- Teachers will set topics that are coming up in the first mock series, in November.
- Sometimes science questions may challenge students, however where this is the case Sparx provides unique support to fill knowledge gaps or guide them through application of scientific ideas.



Encourage your child to start their homework early so they can get support before the deadline if they are stuck.

Provide a quiet space for your child to focus on their homework, minimising distractions where possible.

How can you help?

Sparx Science will automatically adjust the level of questions based on your child's answers, please try not to answer the questions for them, instead ensure they are carefully reading the support and using this information to answer the questions.

Key details

- Students log in at app.sparx-learning.com. They will need to find their school and log in using their Sparx Maths details.
- Homework will be handed out on Tuesday every week, and collected on Monday
- Each Sparx Science homework should take 1 hour.

After School Science Revision Classes

Monday Week B 3pm-4pm

Range of rooms for Combined, Triple and tiers