



Parent/Carer Evening
Science Department

Plan of Action 😊

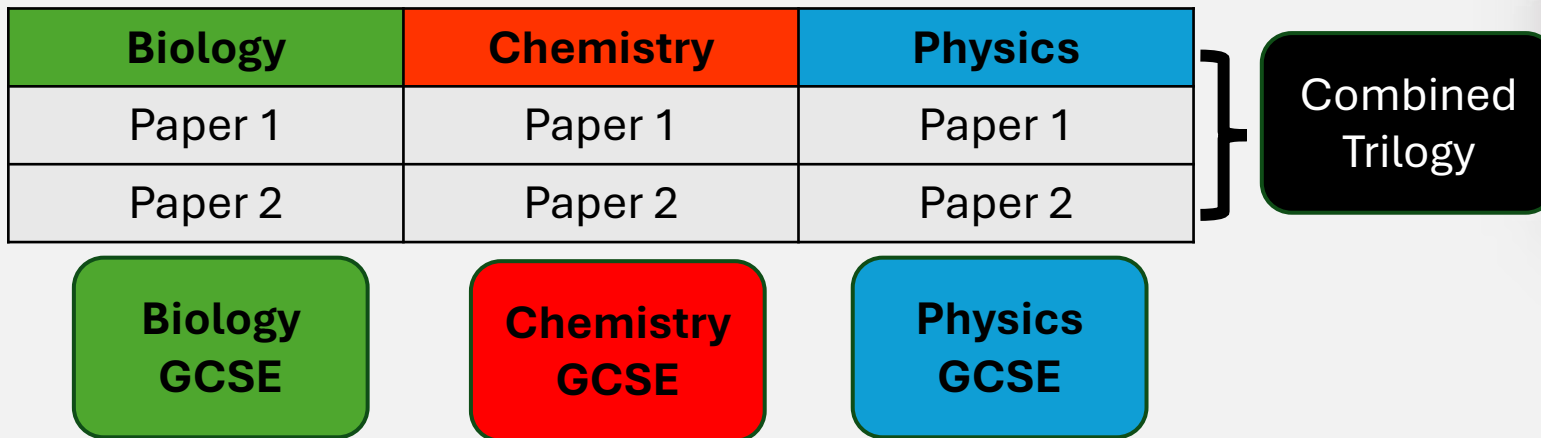
Session Aims:

- The Course Structure.
- Assessment Expectations.
- Revision and Supporting Resources.
- SPARX & GCSE Pod.
- How can you offer effective support?



The Course Structure

- What does the course look like?
 - Combined Trilogy pathway (2 GCSEs)
 - Separate Science Triple pathway (3 GCSEs).
- Subject material from all 3 science disciplines
- The Combined Trilogy pathway covers a *reduced amount of content*.



Assessment Expectations

Separate Science Triple pathway

Combined Science Trilogy pathway

GCSE Biology	Biology Paper 1 (50% - 1hr 45)	Biology Paper 2 (50% - 1hr 45)
GCSE Chemistry	Chemistry Paper 1 (50% - 1hr 45)	Chemistry Paper 2 (50% - 1hr 45)
GCSE Physics	Physics Paper 1 (50% - 1hr 45)	Physics Paper 2 (50% - 1hr 45)

Biology Component	Biology Paper 1 (16.66% - 1hr 15)	Biology Paper 2 (16.66% - 1hr 15)
Chemistry Component	Chemistry Paper 1 (16.66% - 1hr 15)	Chemistry Paper 2 (16.66% - 1hr 15)
Physics Component	Physics Paper 1 (16.66% - 1hr 15)	Physics Paper 2 (16.66% - 1hr 15)



Tier Options: Foundation (Grades 1–5) or Higher (Grades 4–9)

Assessment Objectives

Knowledge, Application & Skill

Objective	Description	Weighting
AO1		
AO2		
AO3	improve experimental procedures	

What This Means for our pupils!

- **AO1: Recall** facts, definitions, and concepts
 - *Example:* Describe the process of photosynthesis
- **AO2: Use knowledge** in new contexts
 - *Example:* Predict the outcome of a chemical reaction
- **AO3: Evaluate** data and methods
 - *Example:* Suggest improvements to a practical experiment

Assessment – Topic Areas

	Biology	Chemistry	Physics
Paper 1	1.Cell Biology 2.Organisation 3.Infection and Response 4.Bioenergetics	1. Atomic Structure and the Periodic Table 2. Bonding, Structure, and the Properties of Matter 3. Quantitative Chemistry 4. Chemical Changes 5. Energy Changes	1. Energy 2. Electricity 3. Particle Model of Matter 4. Atomic Structure
Paper 2	5.Homeostasis and Response 6.Inheritance, Variation and Evolution 7.Ecology	6. The Rate and Extent of Chemical Change 7. Organic Chemistry 8. Chemical Analysis 9. Chemistry of the Atmosphere 10. Using Resources	5. Forces 6. Waves 7. Magnetism and Electromagnetism 8. Space Physics <i>(Triple only)</i>



It can feel
daunting!
Lots of content to
know and apply.

Assessment - Required Practical Element

Subject	Practical
Biology	Microscopy
	Osmosis
	Enzymes
	Food Tests
	Photosynthesis
	Reaction Time
	Field Investigations
	Decay (Separate only)
	Germination (Separate only)
	Microbiology (Separate only)
Chemistry	Making Salts
	Electrolysis
	Energy Changes
	Rates of Reaction
	Chromatography
	Identifying Ions
	Titration (Separate only)
	Water Purification (Separate)
Physics	Specific Heat Capacity
	Resistance
	I-V Characteristics
	Density
	Light
	Force and Extension
	Acceleration
	Waves
	Radiation and Absorption
	Motors (Separate only)

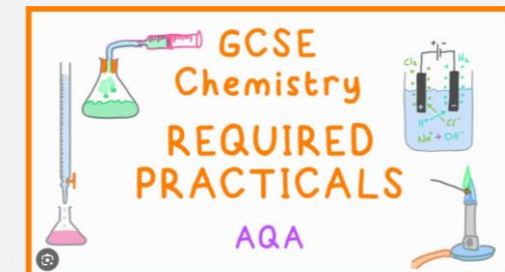
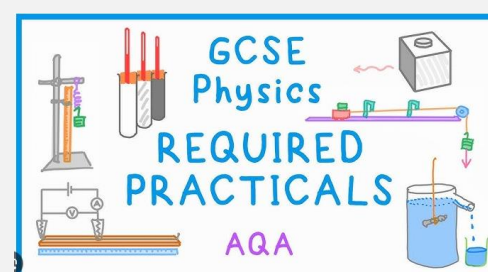
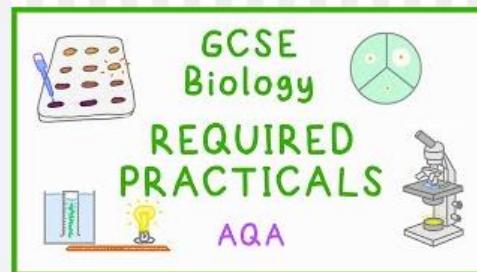


Figure 1 shows onion cells viewed using a light microscope.

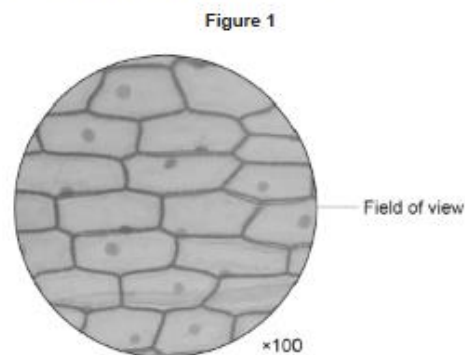
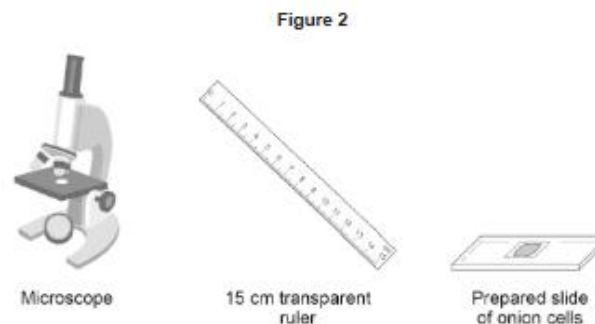


Figure 2 shows the apparatus given to a student.



Describe how the student could use the apparatus to estimate the mean length of onion cells on the slide.

6 marks



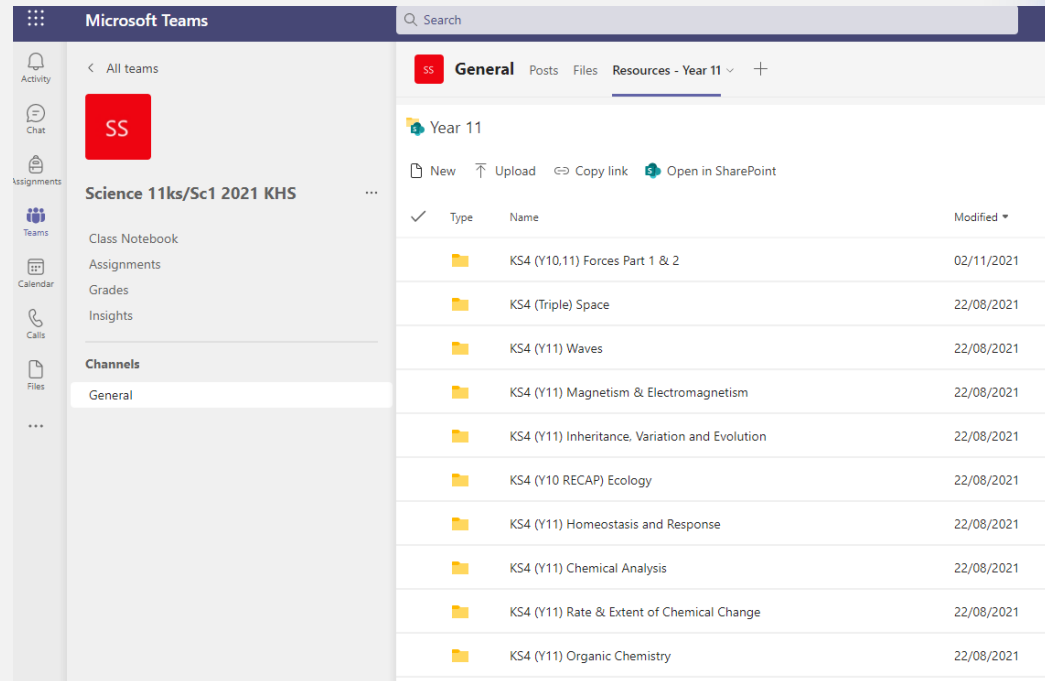
Revision & Supporting Resources



All teaching resources are available for every topic area.

Independent revision throughout Y11.

Individual teachers can add more tailored resources to the class team pages as the year continues.



- **MS Teams**
- Sparx Science
- GCSEpod
- Guides and Knowledge Organisers
- Targeted Intervention



Revision & Supporting Resources

Sparx Science Help & Support

Q1 X Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Results

Check your learning

A $\text{H}-\text{C}(\text{H})_2-\text{C}\equiv\text{C}-\text{H}$ B $\text{H}_2\text{C}=\text{CH}_2$ C $\text{H}-\text{C}(\text{H})_2-\text{C}(\text{H})_2-\text{H}$ D $\text{H}-\text{C}(\text{H})_2-\text{C}(\text{H})_2-\text{C}(\text{H})_2-\text{H}$

Zoom

a) Which of these molecules contains a **double bond** between two carbon atoms?

☐ A ☐ B ☐ C ☐ D

b) What is this type of molecule called?

Enter answer...

Show me the support again Periodic Table Submit

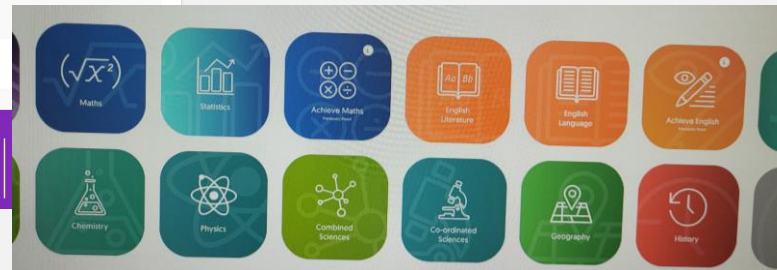
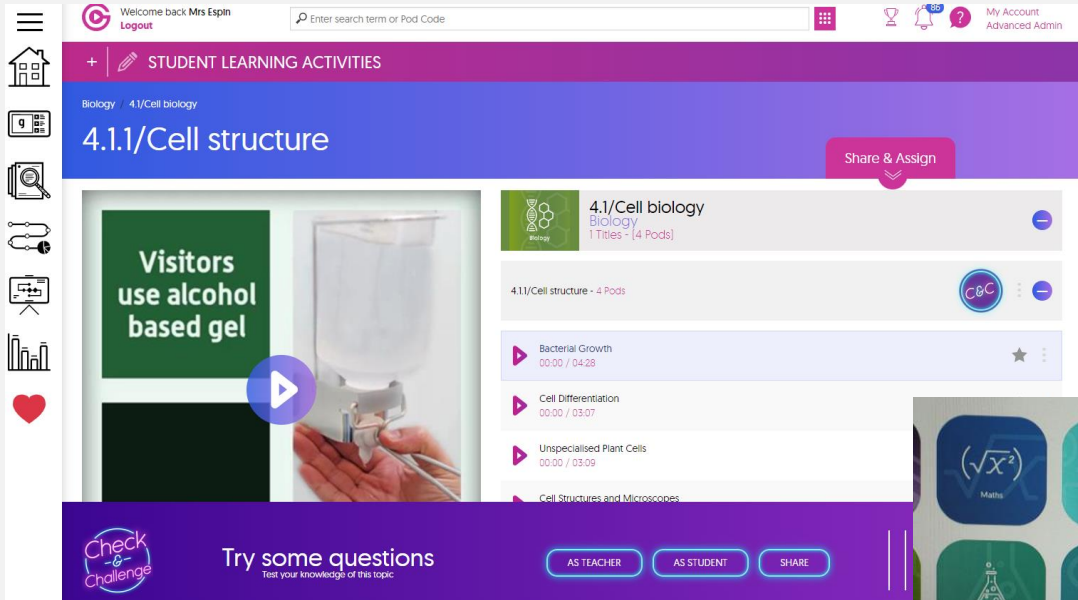


- MS Teams
- **Sparx Science**
- GCSEpod
- Guides and Knowledge Organisers
- Targeted Intervention

- Weekly homework assignments rotating across the 3 disciplines
- Intuitive - gets to know the learner and adapts to their needs
- Independent learning ANYTIME

Kettlethorpe
HIGH SCHOOL

Revision & Supporting Resources

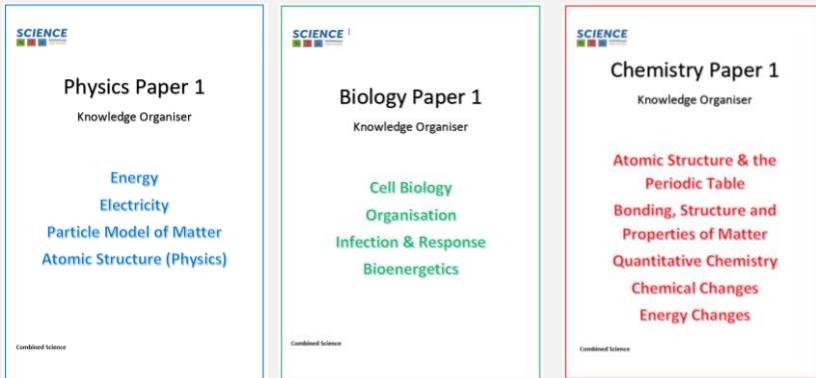


- MS Teams
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- **GCSEpod**
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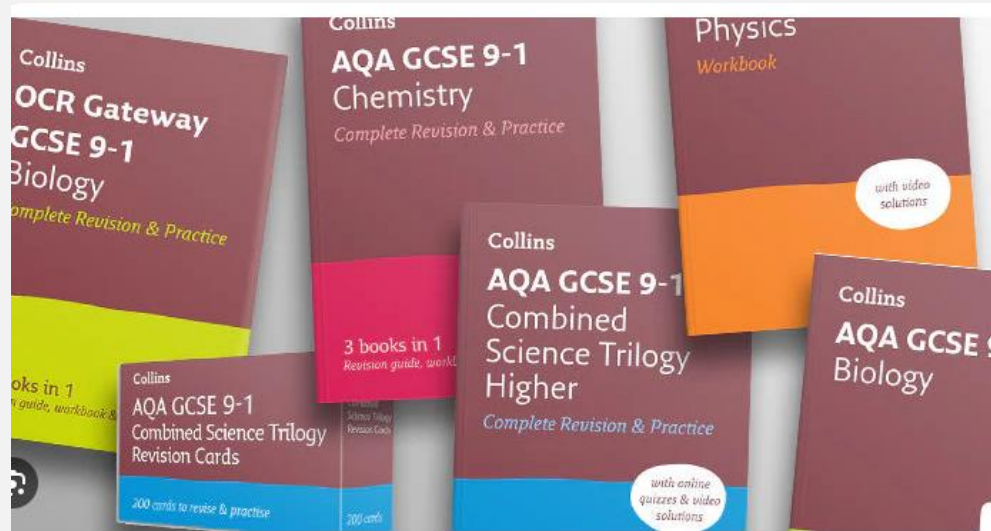
- Check and Challenge
- Pods for every specification point
- Multiple choice
- Active revision



Revision & Supporting Resources



- Knowledge organisers
- Specific to each exam paper series.



- Collins revision guides. **Practice, Apply, Test.**
- Knowledge Organisers. Paper 1 & Paper 2.
- Exam paper bank.

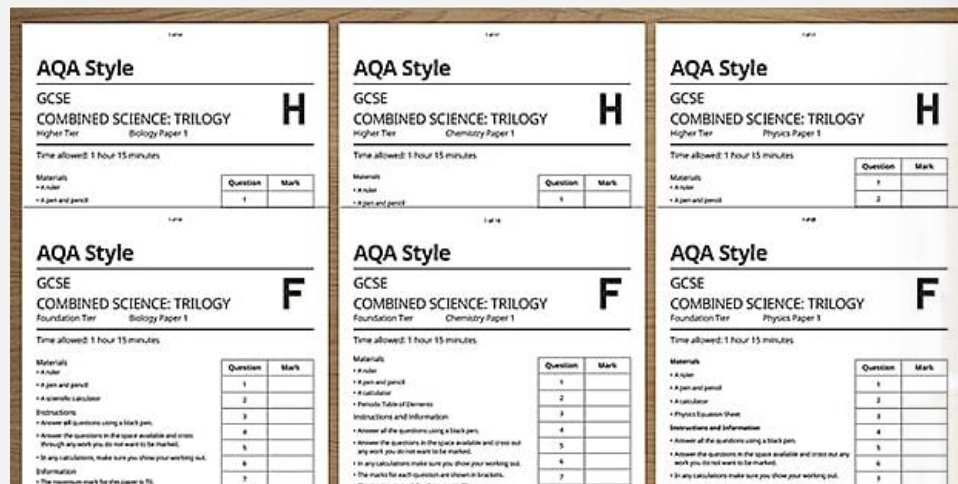
- MS Teams
- Sparx Science
- GCSEpod

• Guides and Knowledge Organisers

- Targeted Intervention



Revision & Supporting Resources



- MS Teams
- Sparx Science
- GCSEpod
- Guides and Knowledge Organisers
- **Targeted Intervention**

- Intervention for targeted pupils.
- Small focus groups during lesson time.
- Tutor time.
- After School.
- Exam technique focused.

What can you do to support your child?

Exam Technique Tips

- **AO1 (Recall):** Use quizzes and flashcards.
- **AO2 (Application):** Practice applying concepts to new scenarios.
- **AO3 (Analysis):** Encourage them to explain results from experiments or graphs.

Academic Support Strategies

1. Understand the Curriculum

- Familiarize yourself with the topics (there are many!)

2. Guide them to Revision Resources

- **SPARX – Homework ALWAYS!**
- **GCSEPod:** Great for bite-sized video explanations
- **BBC Bitesize:** Free and reliable revision notes and quizzes
- **Past Papers:** Teacher and download from AQA's website to practice exam technique

3. Encourage Effective Study Techniques

- **Spaced Practice:** Spread revision over time rather than cramming
- **Active Recall:** Use flashcards or quizzes to test memory
- **Interleaving:** Mix topics during revision sessions to improve retention
- **Mind Maps & Diagrams:** Help visualize complex processes



Thank You



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Please email if we can be of any further support.



Kettlethorpe
HIGH SCHOOL