

Team Science



GCSE Provisional Exam Dates

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|----------------------|------------------------------------|
| 1. Biology Paper 1 | Tuesday 13 th May (pm) |
| 2. Chemistry Paper 1 | Monday 19 th May (am) |
| 3. Physics Paper 1 | Thursday 22 nd May (am) |
| 4. Biology Paper 2 | Monday 9 th June (am) |
| 5. Chemistry Paper 2 | Friday 13 th June (am) |
| 6. Physics Paper 2 | Monday 16 th June (am) |

Lesson 6's are available
Weds till 4.10pm

6



Brand new **Revision guides**
have been given to all students

Revision checklists

are available on the shared Teams folders.

Science assessment	Name
9.1B Cells, cell transport and microscopes.	
Total marks: 50	Year score: %

- Questions**
1. Name the structure found in an animal cell that controls movement in and out.
 2. Name the structures found only in a plant cell that supports the cell.
 3. Name the specialised cell that carries impulses.
 4. Name the specialised cell that fertilises the egg.
 5. What is the function of a ribosome?
 6. What is the function of the mitochondria?
 7. What is one adaptation of a sperm cell?
 8. What is one adaptation of a root hair cell?
 9. Write out the equation used to calculate magnification
 10. How do you calculate total magnification of a microscope?
 11. Name the process where water moves in and out of cell.
 12. Which process moves oxygen into the blood?
 13. Name the process where substances are moved against the concentration gradient.
 14. Which type of microscope has a better resolution?
 15. Which type of microscope produces colour images?

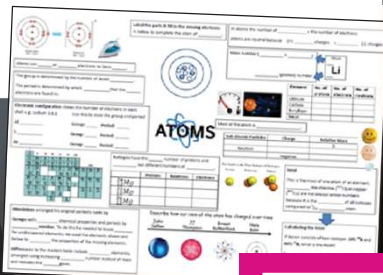
Y9 Cells and Cell transport		Met
KNOW	State that diffusion is the spreading of the particles of any substance in solution, or particles of a gas.	
	State how a large surface area to volume ratio in single celled organisms allows sufficient transport of molecules in and out of cells.	
APPLY	State the 4 factors that increase the effectiveness of exchange surfaces in multicellular organisms. eg. large surface area, thin membranes, perfused blood supply, ventilation.	
	State differences between diffusion, osmosis and active transport in terms of concentration gradients and energy.	
EVALUATE	Describe how substances move by diffusion in gas exchange system eg. oxygen, carbon dioxide and the removal of waste eg. urea.	
	Explain the need for exchange surfaces in multi-cellular organisms to increase surface area by volume ratio to allow efficient transport of molecules in and out of cells eg. small intestine, lungs, gills, roots and leaves.	
ANALYSE	Identify, explain and interpret diagrams that model diffusion.	
	Use concepts to explain the effect of placing plant tissue in varying concentrations of salt or sugar solutions (REQUIRED PRACTICAL)	
EVALUATE	Plot, draw and interpret a line graph of water loss/gain.	
	Measure rate of water uptake in plants.	
EVALUATE	Explain why active transport is important for living organisms to include plant roots and the gut.	
	Explain how factors affect the rate of diffusion eg. temperature, concentration, surface area.	
EVALUATE	Use percentages and calculate percentage change in gain and loss of mass in plant tissue.	

Tests – key information is tested using short answers – available from class teachers.

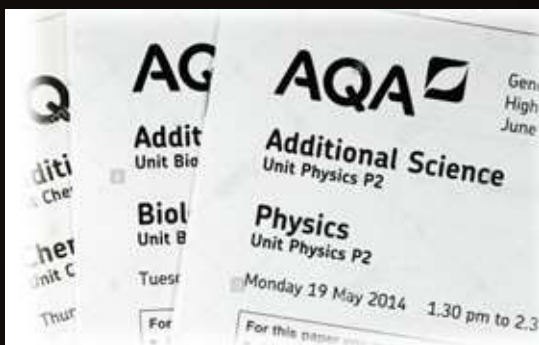
40% A01
Recall Skills in Exam

Revision mats
Are all shared in your Teams folder

20% of exam
Maths in Science



Bitesize: Staff can also recommend various phone revision apps some of which are free like bbc bitesize while others include some in-app charges.



Past papers are shared in your Teams folder.



Educake Science
Online Homework and Revision



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Use track my progress to identify your weak areas – Red/ Amber/ Green
Each topic has a drop down arrow to see more detail.

My Educake > Track Your Progress on GCSE (9-1) Science, Chemistry

Topic	Percentage Correct	Questions Answered	Answer 10 More Questions
4.1 Atomic Structure and the Periodic Table (Paper 1)			
Atoms, elements, and compounds: th...	91%	247	▶
Mixtures	71%	14	▶
Atomic models	65%	129	▶
The periodic table	72%	65	▶
Group 0	19%	41	▶
The transition metals (separate ch...	88%	8	▶
4.2 Bonding, Structure and the Properties of Matter (Paper 1)			
Chemical bonds	74%	57	▶

Choose a topic & read the linked revision guide pages and set yourself a quiz.

Core practical videos

AQA Exam board on Youtube

Scan the QR code and watch the short videos summarising the Core practicals you completed.



17% of GCSE Science exam Grade is from Core Practical

SCAN ME