



Dallam School

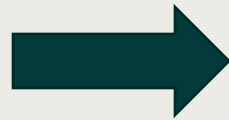
Science

Exam information

Exam board: AQA

Number of exams: 6 written papers

Length of examinations: 1 hour 15 minutes / 1 hour 45 minutes

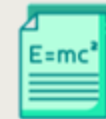


Combined science
GCSE
(double grade)

Biology GCSE Chemistry GCSE Physics GCSE
(three single grades)



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OFQUAL has just consulted on the provision of formula sheets for summer 2024 exams. We will update you once the outcome is known.



A scientific calculator is **required** for all science examinations.

Exam information - tiers

HIGHER TIER	60% Equivalent to 252 marks Trilogy combined	High demand
	40% Equivalent to 168 marks Trilogy combined	Standard demand
	60% Equivalent to 252 marks Trilogy combined	Low demand
FOUNDATION TIER		

- Science examinations are tiered to ensure that they are accessible to students across the full ability range.
- All examinations allow access to standard and strong pass grades.
- The lowest grade available on higher tier is a grade 4 (standard pass) and the highest grade available on foundation tier is a grade 5 (strong pass).
- Student target grades and performance in the end of Year 10 examination have informed the tier students will be sitting in January mocks.
- The school always balances the need to protect a student from failing to attain a grade with the need to protect them from their grade being capped.



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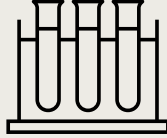
What will students be assessed on?

Subject content



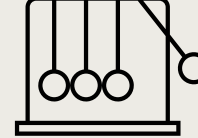
Biology

1. Cell biology
2. Organisation
3. Infection and response
4. Bioenergetics
5. Homeostasis and response
6. Inheritance, variation and evolution
7. Ecology



Chemistry

1. Atomic structure and the periodic table
2. Bonding, structure, and the properties of matter
3. Quantitative chemistry
4. Chemical changes
5. Energy changes
6. The rate and extent of chemical change
7. Organic chemistry
8. Chemical analysis
9. Chemistry of the atmosphere
10. Using resources



Physics

1. Energy
2. Electricity
3. Particle model of matter
4. Atomic structure
5. Forces
6. Waves
7. Magnetism and electromagnetism
8. Space physics (separate science only)



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What will students be assessed on?



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Questions

The exam papers include questions that allow students to demonstrate

- their knowledge and understanding of the content developed in one section or topic, including the associated mathematical and practical skills or;
- their ability to apply mathematical and practical skills to areas of content they are not normally developed in or;
- their ability to draw together different areas of knowledge and understanding within one answer.

A range of question types will be used, including multiple choice, short answer and those that require extended responses. Extended responses may be prose, extended calculations, or a combination of both, as appropriate to the question.

Required practical

Students have completed specific practical activities covering the use of specific apparatus and techniques. Knowledge of these practical activities is tested in the examinations.

Where can students go for extra help?

- Use revision strategies such as mind maps, flashcards, Cornell notes, and foldables.
- Make use of online revision resources such as:
 - **Cognito Science** for videos walkthroughs and past paper questions by topic;
 - **BBC Bitesize** for revision notes and quizzes;
 - **Seneca Learning** for quizzes;
 - **CGP revision guide** (details on purchasing can be found on the school website);
 - **Physics Maths Tutor** for revision resources, past paper questions etc.
- Practise past examination questions including key question types including 4 and 6 mark level of response questions.
- For the **January mock examinations**, science teachers have provided a “What to expect in your science mock exams” guide. Students are firmly encouraged to use this to focus their revision over the next month or so.
- There will be some afterschool revision support sessions for students e.g. Chemistry on Thursdays.



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How can you support your child when revising for Science?

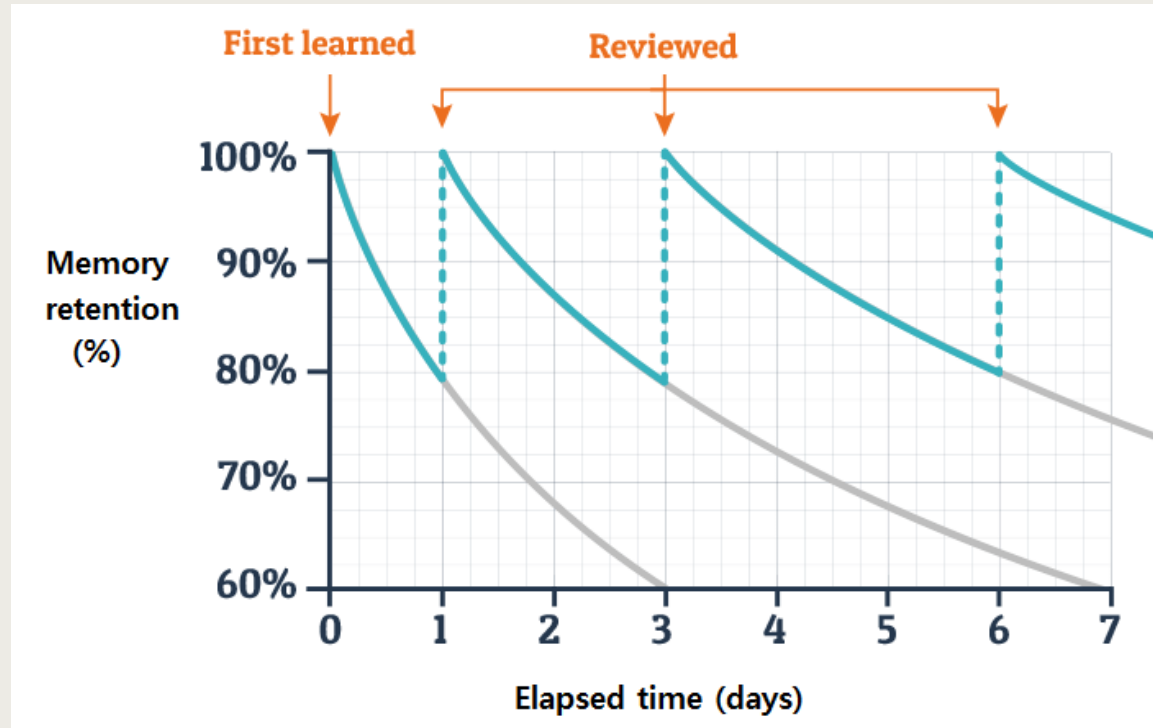


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Students should make summary revision notes on topics and review these regularly.

Revision notes should be condensed with time, retaining only the points that have not been committed to long term memory.

Students should test themselves using quizzes, past exam questions, or filling in a knowledge retriever, helping to commit learning to long term memory.



How can you support your child when revising for Science?



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Help students to self regulate and take responsibility for their learning. When revising it is important to:

1. Have a clear timetable to revise all the topic areas.
2. Adopt a little but often approach.
3. Interleave topics and types of activities.
4. Prioritise weaker topic areas first.
5. Make revision active i.e. test understanding using past papers / quizzes / flashcards.

The science team will provide suggested revision timetables for the summer examinations, after January mocks.

2019 AQA Physics Revision Timetable
Using retrieval, interleaving and spaced practice

W/ B	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
25/2	Create a set of flashcards to cover the Forces topic. Write your own calculation Qs		Seneca 6. Waves 6.1, 6.2, 6.3	Create a set of flashcards to cover the Energy Topic. Write your own calculation Qs		Create a brain dump / mind map for the Particle Model of Matter topic	
4/3	Seneca 2. Electricity 2.1, 2.2, 2.3	Create a brain dump / mind map for the Forces topic		Seneca 4. Atoms 4.1	Create a set of flashcards to cover the Electricity topic. Write your own calculation Qs		Seneca 4. Radiation 4.2
11/3	Create a brain dump / mind map for the Waves topic		Seneca 1. Energy 1.1	Create a set of flashcards to cover the Space topic			Create a brain dump / mind map for the Magnetism topic
18/3	Seneca 8. Waves 8.1 (Impul)	Create a set of flashcards to cover the Particle Model topic. With calculation Qs		Recreate your Forces mind map	Self Quiz using your Energy flashcards	Self Quiz using your Forces flashcards	Seneca 7. Magnetism 7.1, 7.2
25/3	Create a set of flashcards to cover the atoms & radiation topic. With calculation Qs		Seneca 1. Energy 1.1, 1.2, 1.3	Create a set of flashcards to cover the Magnetism topic. Write your own calculation Qs			Create a brain dump / mind map for the Space topic
1/4	Seneca 2. Electricity 2.4, 2.5	Create a set of flashcards to cover the Waves topic. With calculation Qs		Self Quiz using your Magnetism flashcards	Create a brain dump / mind map for the Energy topic		Recreate your particle model mind map
8/4	Seneca 6. Waves 6.4, 6.5, 6.6	Create a brain dump / mind map for the Electricity topic		Seneca 3. Particle Model 3.1, 3.2, 3.3	Recreate your particle model mind map		Create a brain dump / mind map for the atoms & radiation topic
15/4	Self Quiz using your Electricity flashcards	Recreate a brain dump / mind map for the Space topic		Recreate your atoms & Radiation mind map and create questions to self quiz		Seneca 5. Forces 5.1, 5.2	Seneca 5. Forces 5.3, 5.4
22/4	Self Quiz using your Particle Model flashcards	Seneca 4. Radiation 4.2		Recreate your Electricity mind map and create questions to self quiz	Seneca 7. Magnetism 7.2, 7.3		Recreate your waves mind map and create questions to self quiz
29/4	Recreate your Energy mind map and create questions to self quiz		Self Quiz using your Atoms and Radiation flashcards		Seneca 3. Particle Model 3.1, 3.2, 3.3		Recreate your Magnetism mind map and create questions to self quiz
6/5	Self Quiz using your Electricity flashcards	Seneca 1. Energy 1.1, 1.2, 1.3	Self Quiz using your waves flashcards	Recreate your Space mind map and create questions to self quiz		Seneca 2. Electricity 2.4, 2.5	Seneca 7. Magnetism 7.1, 7.2
13/5	Recreate your Energy mind map and create questions to self quiz		Self Quiz using your Energy flashcards	Seneca 4. Atoms 4.1	Seneca 2. Electricity 2.1, 2.2, 2.3	Self Quiz using your Energy flashcards	Self Quiz using your Electricity flashcards
20/5	Self Quiz Energy, Electricity, Particle Model of Matter & Atomic Structure topics		Physics Paper 1 22.5.19	Seneca 8. Waves 8.1 (Impul)	Seneca 7. Magnetism 7.1, 7.2	Self Quiz using your Waves flashcards	Seneca 7. Magnetism 7.2, 7.3
27/5	Self Quiz using your Forces mind map	Recreate your Magnetism mind map and create questions to self quiz		Seneca 5. Forces 5.1, 5.2	Self Quiz using your waves flashcards		Recreate your Forces mind map and create questions to self quiz
3/6	Self Quiz using your Magnetism	Seneca 5. Forces 5.3, 5.4	Seneca 7. Magnetism 7.1, 7.2	Self Quiz using your Forces mind map	Seneca 7. Magnetism 7.2, 7.3		Recreate your Waves mind map and create questions to self quiz