



Year 11 Science

Study Checklist 2021-22

SCIENCE

Advice and support for all Year 11 students
Regular independent study will aid the recall of knowledge and enhance your skills to ensure targets are met next year

Tick when complete

- Draft a timetable that shows when you can work daily and how many hours of study you can fit in.
- Learn how you revise best. You may prefer note taking and listening to GCSE podcasts rather than watching science videos.
- You must use active recall. Active recall simply means that you actively try to remember what you have learnt. READ – COVER – RECITE. Read a page, cover the page, and then recite what you have learnt.
- The best revision method is to space out your learning rather than cram last minute. By spacing out your learning over time, you will give your brain time to process and consolidate the information.
- Start the habit of creating revision resources as you go along. Create flashcards, mind maps, revision notes. These things are time consuming. By the time you get to the Easter holiday, you should be revising and not creating revision resources.
- Get help early. If you are struggling. Get help! Watch Primrose Kitten YouTube videos or check out Seneca learning or BBC Bitesize. Also attend the after-school intervention sessions.

Advanced information

Biology Paper 1 (Higher)

- Cell division
- Animal tissues, organs, and organ systems
- Photosynthesis

Chemistry Paper 1 (Higher)

- How bonding and structure are related to the properties of substances
- Use of amount of substance in relation to masses of pure substances
- Reactivity of metals
- Reactions of acids
- Electrolysis
- Exothermic and endothermic reactions

Physics Paper 1 (Higher)

- Energy changes in a system, and the ways energy is stored before and after such changes
- Energy transfers
- Changes of state and the particle model
- Particle model and pressure
- Atoms and isotopes
- Atoms and nuclear radiation

Biology Paper 1 (Foundation)

- Cell division
- Animal tissues, organs, and organ systems
- Communicable diseases
- Photosynthesis

Chemistry Paper 1 (Foundation)

- The periodic table
- How bonding and structure are related to the properties of substances
- Structure and bonding of carbon
- Reactivity of metals
- Reactions of acids
- Electrolysis

Physics Paper 1 (Foundation)

- Energy changes in a system, and the ways energy is stored before and after such changes
- National and global energy resources
- Current, potential difference and resistance
- Changes of state and the particle model
- Atoms and nuclear radiation

<p>Biology Paper 2 (Higher)</p> <ul style="list-style-type: none"> -Hormonal control in humans -Organisation of an ecosystem -Biodiversity and the effect of human interaction on an ecosystem 	<p>Chemistry Paper 2 (Higher)</p> <ul style="list-style-type: none"> -Rate of reaction -Reversible reactions and dynamic equilibrium -Carbon compounds as fuels and feedstock -Purity, formulations, and chromatography -The composition and evolution of the Earth's atmosphere -Using the Earth's resources and obtaining potable water 	<p>Physics Paper 2 (Higher)</p> <ul style="list-style-type: none"> -Forces and their interactions -Describing motion along a line -Forces, accelerations, and Newton's Laws of motion -Momentum -Electromagnetic waves -The motor effect
<p>Biology Paper 2 (Foundation)</p> <ul style="list-style-type: none"> -Hormonal control in humans -Reproduction -Adaptations, interdependence, and competition -Organisation of an ecosystem 	<p>Chemistry Paper (Foundation)</p> <ul style="list-style-type: none"> -Rate of reaction -Reversible reactions and dynamic equilibrium -Carbon compounds as fuels and feedstock -Purity, formulations, and chromatography -The composition and evolution of the Earth's atmosphere -Common atmospheric pollutants and their sources -Using the Earth's resources and obtaining potable water 	<p>Physics Paper 2 (Foundation)</p> <ul style="list-style-type: none"> -Forces and their interactions -Describing motion along a line -Forces, accelerations, and Newton's Laws of motion -Forces and braking -Electromagnetic waves -Permanent and induced magnetism, magnetic forces, and fields -The motor effect

Internet websites and apps for study support

<http://Senecalearning.com>

The more you use the site, the better it gets to know you. Questions become tailored to you.

<https://www.bbc.co.uk/bitesize/subjects/zrkw2hv>

Provides written information and tests to help students who like to read to revise for GCSE science courses.

https://www.youtube.com/channel/UCqbOeHaAUXw9II7sBVG3_bw

'free science lessons' channel on YouTube. A series of short videos that cover the AQA9-1 Trilogy (Double award). Really useful to watch to revise/go over areas you are not sure of.

<https://www.youtube.com/channel/UCBgymal8AR4QIK2e0EfJwaA>

Primrose kitten – YouTube videos to watch, including booster grade 7-9 questions AND a workbook that can be downloaded filled with many quick-fire questions you should know the answers to.

<https://docbrown.info/index.htm>

Provides revision notes and questions for GCSE sciences.

<http://kerboodle.com>

Science have bought in student access to this website. It provides access to resources used in the lesson, online copies of a textbook for science and a range of interactive quizzes. This is tailored specifically to our exam board. Students have log in details for this.

<http://www.aqa.org.uk/subjects/science/gcse/combined-science-trilogy-8464/assessmentresources>

Specimen papers for AQA Trilogy science qualification.

