

## Yr 9 Triple Science Summer Revision

To be able to complete this summer revision task you must have set up your my GCSE account using the code given to you at parents evening. If you are not sure about this please contact Mrs Norris ([pnorris@johncolet.co.uk](mailto:pnorris@johncolet.co.uk)).

You need to watch the videos and make notes about what it is teaching you. It would be a good idea to have a folder to keep your notes together (or you can get an extra exercise book from Science). You should then have a go at the exam paper questions which go with each video. You do not have to print the questions you can just write your answers on paper. Don't forget to self-assess your answers using the markscheme on the website. Remember to use the traffic light tool on the website to let your teacher know how you confident you are with each topic.

These are all the topics you have covered so far in Science, so you do not have to complete it all by the end of the summer holiday (but you will need them all by the end of Year 11). You might already be able to tick some off from your revision this year.

### Summer holiday target

Gold target: 36 videos and their notes (2 videos per science per week).

Silver target: 18 videos and their notes (1 video per science per week).

Bronze target: 6 videos and their notes (1 video per week).

If it is difficult for you to access the internet you can revise a topic from the revision guide, the target for this is you should have completed revision notes for at least 6 topics by the end of the summer holiday.

**You need to bring your folder or book of notes and answers with you in September.**

### Biology

JC Topic Name	Paper Number	Triple kerboodle textbook chapter	my-GCSEscience videos	Notes made?	Mark achieved on exam questions?
Communicable Diseases	Bio 1	B5 and B6	Preventing the spread of pathogens		
			Viral, bacterial, fungal and protist diseases		
			Immunity and vaccination		
			Fighting diseases with drugs		
			<i>Monoclonal antibodies (triple only)</i>		
			<i>Plant diseases and defence responses (bio only)</i>		
Heart and lifestyle	Bio 1	B4 (4.1-	Cardiovascular disease		

disease		4.5), B7	The circulatory system		
			Health and risk factors		
Food production	Bio 2	B18 (18.10-18.12 only)	<i>Sustainable food production (triple only)</i>		
Classification	Bio 2	B15 (15.9 and 15.10 only)	Classification and evolutionary trees		
Adaptations and interdependence	Bio 2	B16	Communities and interdependence		
			Adaptations		
			Measuring the distribution of organisms		
Organisation of an ecosystem	Bio 2	B17	Cycling in ecosystems		
			<i>Rates of decomposition (triple only)</i>		
			<i>Trophic levels in an ecosystem (triple only)</i>		
Biodiversity	Bio 2	B18	<i>Impact of environmental change (triple only)</i>		
			Human impact on the environment		

## Chemistry

JC Topic Name	Paper Number	Triple kerboodle textbook chapter	my-GCSEscience videos	Notes made?	Marks on exam questions?
The periodic table	Chem 1	C1 and C2	Atoms, elements, compounds, mixtures		
			Separating mixtures		
			Scientific models of atoms		
			Atomic structure		
			Relative atomic mass		
			Electronic structure		
			The periodic table		

			Group 0 - The noble gases		
			Group 1 - The alkali metals		
			Group 7 - The halogens		
			The transition elements (triple only)		
Metals and reactivity	Chem 1	C5	The reactivity of metals		
			Displacement reactions		
			Extracting metals		
Using materials	Chem 2	C15	Using materials (triple only)		
			Alternative methods for extracting metals (triple only)		
			Corrosion and rusting (triple only)		
Fuels and feedstocks	Chem 2	C9	Crude oil and alkanes		
			Combustion of hydrocarbons		
			Cracking		
			Alkenes		
The atmosphere	Chem 2	C13	The Earth's atmosphere		
			The greenhouse effect and global warming		
			Atmospheric pollutants		
			Potable water		
Life cycle assessment	Chem 2	C14	Life cycle assessment		

## Physics

JC Topic Name	Paper Number	Triple Kerboodle textbook chapter	my-GCSEscience videos		
Conservation and dissipation of	Phys 1	P1	Energy changes in a system		
			Power		

energy			Conservation and dissipation of energy		
			Power and energy transfers		
			Work done and energy transfer		
			Forces and elasticity		
Energy transfer by heating	Phys 1	P1			
National and global energy resources	Phys 1	P3	National and global energy resources		
			The national grid		
Domestic uses and safety	Phys 1	P5	Domestic uses and safety		
Static electricity	Phys 1	P4.1	<i>Static electricity (triple only)</i>		
			<i>Electric fields (triple only)</i>		
Magnets	Phys 2	P15	Magnetism		
Moments levers and gears	Phys 2	P8	Moments, levers and gears		
Motion	Phys 2	P9	Distance and displacement, speed and velocity		
			Distance-time graphs		
			Acceleration		
			Velocity-time graphs		
			Falling objects		
Waves	Phys 2	P12	Transverse and longitudinal waves		
			Properties of waves		
			Reflection of waves		
			<i>Sound waves (triple only)</i>		
			<i>Waves for detection and exploration (triple only)</i>		