
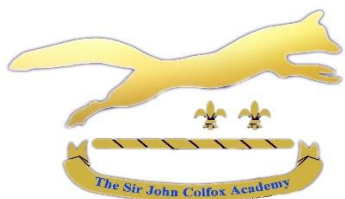


Exam Board	Recommended revision guide	Support available in school
AQA	 <p>GCSE AQA Combined Science Revision Guide Higher Level</p>	<p>Science support drop in sessions Monday lunchtimes, Mrs Neill A201 Biology drop in sessions Monday lunchtimes, Miss Toralbo A204 Chemistry drop in sessions Tuesday lunchtimes, Dr Sharma A203 Physics drop in sessions Wednesday lunchtimes, Ms David A209 Biology drop in sessions Thursday lunchtimes, Mr Wilson A205 Physics drop in sessions Friday lunchtimes, Mr Bugler A202 Revision after school Wednesday 3.30-4.15pm, everyone welcome. Rooms and topics to be announced. Revision guides, quiz cards and workbooks available in the library</p>

Combined Science Trilogy- Biology



Revision Schedule 2025

Useful online resources	Exam date(s)
<p>https://www.physicsandmathstutor.com – all past paper exam questions for all the sciences</p> <p>Seneca learning – http://www.senecalearning.com – interactive revision</p> <p>Free science lessons https://www.freesciencelessons.co.uk</p> <p>Primrose Kitten revision videos and exam paper walk-throughs https://www.youtube.com/@Primrose_Kitten</p> <p>Kerboodle.com – interactive versions of the textbooks we use in class, ask your teacher for log in</p> <p>Required Practicals https://www.physicsandmathstutor.com/biology-revision/gcse-aqa/practical-skills/</p>	<p>Biology paper 1 Tues 12th May Chemistry paper 1 Mon 18th May Physics paper 1 Tues 2nd June Biology paper 2 Mon 8th June Chemistry paper 2 Fri 12th June Physics paper 2 Mon 15th June</p>

Revision Instructions

The videos suggested are the bare minimum amount of information you need to know for each topic. Please add to the suggested videos by reading textbooks and revision guides, BBC Bitesize and your class notes.

Bring in a completed mindmap or flashcards as evidence of your revision.

Happy revising! 😊

Week beginning...	Topic	Content to revise	Complete (tick)	Knowledge test score	Weeks left
September					
Monday 22nd	B1 Cell structure	Describe and explain the structure and function of cell organelles, including eukaryotic cells (plant and animal) and prokaryotic cells. Microscopes – light and electron, including magnification calculations and resolution. Specialised cells, including both plant and animal examples. Required practical 1 – using a light microscope Assessment resource - https://www.physicsandmathstutor.com/biology-revision/gcse-aqa/practical-skills/			30
Monday 29th	B1 transport in cells	Diffusion, osmosis and active transport. Required practical 3 – effect of different concentrations of solutions on the mass of plant tissue			29

October					
Monday 6th	B2 Cell division.	Mitosis and chromosomes Make sure you learn the whole cell cycle including interphase.			28
Monday 13th	B3 – Organisation and digestive system	Tissues and organs – learn your definitions Types of food and food tests. Required practical 4 – using food tests to identify food groups The human digestive system – learn all the organs, their enzymes and other chemicals, what food is digested and where is food absorbed. Don't miss out bile. Try labelling a diagram with all the information			27
Monday 20th	B3 – Organisation and digestive system	The human digestive system concentrating on enzymes – learn all the organs, their enzymes and other chemicals, what food is digested and where is food absorbed. Enzymes, what are they and how they work. What factors affect them. Required practical 5 – effect of pH on starch digestion Make sure you also cover enzyme graphs			26
Half term					25

November

Monday 3rd	B16- Adaptations, interdependence and competition. NB. Topic covered in yr9	State some abiotic and biotic factors Calculate population size Describe some things that animals and plants compete for Explain some adaptations of animals and plants to their environment. Make sure you are clear about s.a/vol ratio. Required practical – investigating population size.			24
Monday 10th (Mock week 1)	Mock revision	Check the topics selected for the mock. RAG your knowledge of these topics and concentrate on the weakest ones. Use all the resources listed above Think about HOW you are revising – is it working?? Do you need some help to make your learning more effective?			23
Monday 17th (Mock week 2)					22
Monday 24th	B4 – organising animals and plants	Circulatory system – parts of the blood and functions. Blood vessels, structures and functions. Heart label each part including valves. Heart problems and treatments including evaluation. Try listing the journey of the blood from the right atrium through the whole double circulation system back to the right atrium.			21

December

Monday 1st	B4 – organising animals and plants	Respiratory system – describe the parts of the respiratory system and how the structures help each function. Describe how we breathe in and out. Tissues and organs in plants. Phloem and xylem how they work. Transpiration – what it is and how it works. Try labelling a diagram of a plant showing how water moves from the soil to evaporation from leaves			20
Monday 8th	B5 – Communicable diseases and prevention and treatment	You need to know about viral, bacterial, fungal and protist diseases. For each disease you should be able to state the type of pathogen, symptoms, how it spreads and how it can be treated/prevented. A revision table works well for this. For bacteria and viruses – learn the differences between them and how they cause disease Assessment resource – Teams quiz			19
Monday 15th	B6 prevention and treatment	Human defence – primary defences and the immune system. Vaccination (learn this along with the immune response). Antibiotics and painkillers. Discovering and developing drugs.			18

Christmas holiday					
January 2026					
Monday 5 th	B 7 – Non-communicable diseases and data analysis	Cancer, what it is, risk factors and prevention Smoking damage and risk of disease Diet and exercise and links to health Alcohol and other carcinogens and their effects on the body. Data analysis Q to practise looking at how data is analysed including causal and correlation links.			17
Monday 12 th	B8 – Photosynthesis (paper 1 p5)	Photosynthesis as a chemical reaction including how the leaf is adapted for this function, how the raw materials get to the leaf and how the waste is removed. Limiting factors – including graph interpretation and economical implications in greenhouses Explain and use inverse proportion in the context of photosynthesis. Required practical 6 – effect of light intensity on rate of photosynthesis Use of glucose in plants – including respiration, starch, cellulose, lipids and proteins. The starch test is not a RP but it is useful to recap here in relation to photosynthesis.			16
Monday 19 th	B9 – Respiration (paper 1 p5)	Respiration as a chemical reaction including how the body gets the raw materials to the mitochondria and how waste products are removed. Response of the body to exercise including aerobic and anaerobic responses –lactic acid and oxygen debt Comparison of aerobic and anaerobic respiration. Metabolism, definition and importance and the liver.			15
Monday 26 th (Mock week 1)					14
February					
Monday 2 nd (Mock week 2)					13
Monday 9 th	B10 – Nervous system	Recap homeostasis and negative feedback – these link to both the nervous system and the endocrine system. Describe all parts of the nervous system and link them together from receptors to effectors. Describe how an impulse travels and compare to the message crossing a synapse. Describe and explain the importance of a reflex action.			12

		Lots of describe/explain here. Use diagrams to check what you know and annotate. Ask for diagrams if you can't print them. Required practical 7 – Investigating reaction time.			
Half term					11
Monday 23rd	B11 – Endocrine system	Again link this topic to homeostasis and negative feedback. Label a diagram showing all the endocrine glands. Compare hormones and nervous system. Describe how blood glucose is controlled and link to diabetes. Describe the menstrual cycle and link to control of fertility – contraception and fertility treatment. Make sure you practise data questions and can describe and explain graphs linked to this topic.			10
March					
Monday 2nd	Required practicals	You have covered all the required practicals now. The required practicals will come up on every paper. Make sure you know the methods, results and conclusions Look at the variables, particularly control variables these will indicate how you can improve a method. Also check any equipment and risks. https://www.physicsandmathstutor.com/biology-revision/gcse-aqa/practical-skills/			9
Monday 9th	B13- Reproduction	Explain the advantages and disadvantages of asexual and sexual reproduction. Explain what occurs during the process of meiosis and compare to mitosis. Describe the structure of DNA Complete a genetic cross diagram and predict offspring. Link this to cystic fibrosis and polydactyly			8
Monday 16th	B14 – Variation and evolution	State some examples of genetic and environmental variation Compare the mechanisms involved in natural selection and selective breeding – learn and use the 'RECIPE' (Come and ask Mrs Hicks if you want the secret!) Explain the mechanisms involved in genetic engineering			7
Monday 23rd	B15 – Genetics and evolution	Describe some causes of extinction – learn as a list and use the list Explain how antibiotic resistance develops in bacteria. Explain evolution – NB same recipe as natural selection!! Describe classification.			6

Easter holiday					
April					
Monday 13th	Ecology, B16-18	<p>Use the PLC to check the topic content. These last 2 modules will be your most recent work</p> <p>Likely areas to recap: Carbon cycle Deforestation and peat destruction Maintaining biodiversity.</p> <p>Use Seneca to get an idea of your strengths and weaknesses.</p>			3
Monday 20th	RAG	What do you need to go over again??			2
Monday 27th	Required practicals	<p>The required practicals will come up on every paper. Make sure you know the methods, results and conclusions Look at the variables, particularly control variables these will indicate how you can improve a method. Also check any equipment and risks.</p> <p>https://www.physicsandmathstutor.com/biology-revision/gcse-aqa/practical-skills/</p>			1
May					
Monday 4th					0
Monday 11th					
Monday 18th					
Half term					
June					
Monday 1st					

Monday 8th					
Monday 15th					