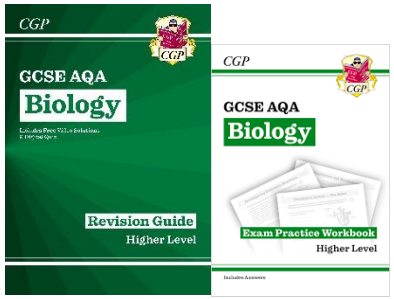
Exam Board	Recommended revision guide	Support available in school
AQA	 GCSE AQA Biology Revision Guide Higher Level	Science support drop in sessions Monday lunchtimes, Mrs Neill A201 Biology drop in sessions Monday lunchtimes, Miss Toralbo A204 Chemistry drop in sessions Tuesday lunchtimes, Dr Sharma 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

Triple Biology

Revision Schedule 2025

Useful online resources	Exam date(s)

Physics and maths tutor - https://www.physicsandmathstutor.com – all past paper exam questions for all the sciences Seneca learning https://senecalearning.com/en-GB/ interactive revision, ask your teacher if you can't login Free science lessons https://www.freesciencelessons.co.uk/ Cognito https://cognitoedu.org/home Primrose Kitten revision videos and exam paper walk-throughs https://www.primrosekitten.com/ Kerboodle.com – interactive versions of the textbooks we use in class, ask your teacher if you do not know how to log in **Required Practicals** https://www.physicsandmathstutor.com/biology-revision/gcse-aqa/practical-skills/	

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 Bacterial growth and how to prepare an uncontaminated culture. Required practical 2 – effect of antiseptics/antibiotics on bacterial growth **Make sure you recap the maths for binary fission.**			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 revention and treatment**	You need to know about viral, bacterial, fungal and protest 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. DO NOT FORGET the plant diseases. **A revision table works well for this.** Plant defences + mineral deficiencies and how to spot disease in plants. 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

		Monoclonal antibodies – how they are made and how they are used.			
Christmas holiday					
January 2026					
Monday 5th	**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 12th	**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 19th	**B9 – Respiration (paper 1 p5)**	Respiration as a chemical reaction including how the body gets the raw materials to the mitochnodria 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 26th (Mock week 1)					14
February					
Monday 2nd (Mock week 2)					13
Monday 9th	**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.			12

		Describe how an impulse travels and compare to the message crossing a synapse. Describe and explain the importance of a reflex action. Label and explain the functions of the parts of the brain and explain the 3 methods of studying the brain. Label and explain the functions of the parts of the eye. Describe how the eye focusses and how vision defects can be corrected. **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.** Explain how auxin controls growth in plants. Describe the use of auxin, gibberellin and ethene. Required practical – Investigating plant growth responses			10
March					
Monday 2nd	**B12 - Homeostasis**	Again link this topic to homeostasis and negative feedback Describe how body temperature is controlled. Describe and explain how the kidneys work and their importance Describe the function of thyroxine and adrenaline.			9
Monday 9th	**B13- Reprodution**	Explain the advantages and disadvantages of asexual and sexual reproduction. Make sure you recheck best of both. Explain what occurs during the process of meiosis and compare to mitosis. Describe the structure of DNA Describe protein synthesis 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' Explain the mechanisms involved in genetic engineering			7

		Describe the different types of cloning: cuttings, tissue cloning, embryo transfer and adult cell cloning.			
Monday 23rd	**B15 – Genetics and evolution**	Describe different theories of evolution and compare them Describe some causes of extinction – learn and use the list Explain how antibiotic resistance develops in bacteria. Explain speciation and compare to evolution – NB same recipe!! Describe classification.			6
Easter holiday					
April					
Monday 13th	**Ecology, B16-18**	Use the PLC to check the topic content. These last 2 modules are our most recent work Likely areas to recap: Carbon cycle Deforestation and peat destruction Trophic layers and biomass			3
Monday 20th	**RAG**	**What do you need to go over again??**			2
Monday 27th	Required practicals	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/			1
May					
Monday 4th					0
Monday 11th		Biology paper 1 Tuesday 12th May			
Monday 18th		Chemistry paper 1 Monday 18th May			

Half term					
June					
Monday 1st		Physics paper 1 Tuesday 2nd June			
Monday 8th		Biology paper 2 Monday 8th June Chemistry paper 2 Friday 12th June			
Monday 15th		Physics paper 2 Monday 15th June			