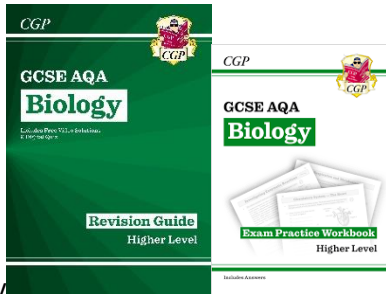
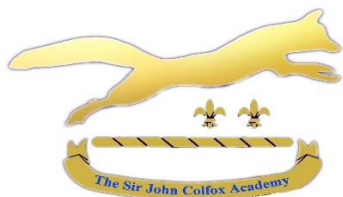


| Exam Board | Recommended revision guide   | Support available in school  |
|------------|--|--|
| <b>AQA</b> |  | <p><b>Revision support available on a wednesday lunchtime in A203.</b></p> <p><b>After school revision sessions every wednesday in A203.</b></p> <p>The Learning checklists are on Teams, please ask if you would like a paper copy.</p> |



# Biology

## Revision Schedule 2024

| Useful online resources  | Exam date(s)  |
|--|---|
| <p><b>BBC Bitesize:</b><br/> <a href="https://www.bbc.co.uk/bitesize/examspecs/zpgcbk7">https://www.bbc.co.uk/bitesize/examspecs/zpgcbk7</a></p> <p><b>Freesciencelessons</b><br/> <a href="https://www.freesciencelessons.co.uk/videos/">https://www.freesciencelessons.co.uk/videos/</a></p> <p><b>Primrose Kitten</b><br/> <a href="https://www.youtube.com/playlist?list=PL7O6CcKg0HaGnykp12D8yVee_SEQdaEHH">https://www.youtube.com/playlist?list=PL7O6CcKg0HaGnykp12D8yVee_SEQdaEHH</a></p> <p><b>Required Practicals</b><br/> <a href="https://www.physicsandmathstutor.com/biology-revision/gcse-aqa/practical-skills/">https://www.physicsandmathstutor.com/biology-revision/gcse-aqa/practical-skills/</a></p> | <p><b>Paper 1</b><br/> Friday 10<sup>th</sup> May.</p> <p><b>Paper 2</b><br/> Friday 7<sup>th</sup> June.</p> |

## January

| Week beginning...             | Topic (and page in PLC)                               | Content to revise  | Assessment     | Knowledge test score | Weeks left |
|-------------------------------|---|--|----------------|----------------------|------------|
| <b>Monday 8<sup>th</sup></b>  | <b>B10 Nervous system (paper 2 p5)</b>                | The nervous system and reflexes <b>Required practical 7 – effect of a factor on human reaction time.</b><br>The brain structure and functions of each area.<br>The eye structures and functions of each part and how the eye focuses light.  | Teams quiz     |                      | 18         |
| <b>Monday 15<sup>th</sup></b> | <b>B11-12 Hormones and Homeostasis (paper 2 p5-6)</b> | Location of glands and description of hormones.<br>Control of blood sugar levels and description and treatment of diabetes.<br>Control of water and salt levels in the blood. This includes structure and function of the kidney and action of ADH.<br>Puberty and the menstrual cycle. Use of hormones for contraception and fertility drugs<br>Action of adrenaline and thyroxine.<br>Plant hormones – phototropism, gravitropism and the role of auxin. Use of plant hormones in agriculture.<br><b>Required practical 8 – effect of light of gravity on seedlings.</b> | Teams quiz     |                      | 17         |
| <b>Monday 22<sup>nd</sup></b> | <b>Required practicals and exam skills</b>            | <a href="https://www.physicsandmathstutor.com/biology-revision/gcse-aqa/practical-skills/">https://www.physicsandmathstutor.com/biology-revision/gcse-aqa/practical-skills/</a><br>NB We have not yet done RP9 or 10 so you don't need these for the mock exam.<br>Use the resources to summarise the methods of Biology RP 1-8.<br>Use the flash cards on physics and maths tutor to focus on the skills covered in each practical.<br>Complete quiz worksheet and bring in to next weeks lesson.   | Worksheet quiz |                      | 16         |
| <b>Monday 29<sup>th</sup></b> | <b>Mock exams</b>                                     |  |                |                      | 15         |
| February                      |   |  |                |                      |            |
| <b>Monday 5<sup>th</sup></b>  | <b>Mock exams</b>                                     |  |                |                      | 14         |

|                               |   |   |   |  |    |
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| <b>Monday 12<sup>th</sup></b> | <b>B1+2 Cell structure and Cell division. (Paper 1 p2)</b>                    | Describe and explain the structure and function of cell organelles, including eukaryotic cells (plant and animal) and prokaryotic cells.<br>Microscopes – light and electron, including magnification calculations and resolution.<br>Specialised cells, including both plant and animal examples.<br><b>Required practical 1 – using a light microscope</b><br>Diffusion, osmosis and active transport.<br><b>Required practical 3 – effect of different concentrations of solutions on the mass of plant tissue</b><br>Bacterial growth and how to prepare an uncontaminated culture.<br><b>Required practical 2 – effect of antiseptics/antibiotics on bacterial growth</b>  | Teams quiz  |  | 13 |
| <b>Monday 19<sup>th</sup></b> | <b>B3 – Organisation and digestive system (paper 1 p 3)</b>                   | Tissues and organs – learn your definitions<br>Types of food and food tests.<br><b>Required practical 4 – using food tests to identify food groups</b><br>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.<br>Enzymes, what are they and how they work. What factors affect them.<br><b>Required practical 5 – effect of pH on starch digestion</b><br><br><b>Try labelling a diagram with all the information</b>  | Labelled diagram                                  |  | 12 |
| <b>Monday 20<sup>th</sup></b> | <b>B4 – organising animals and plants (paper 1 p 3)</b>                       | 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.<br><b>Try listing the journey of the blood from the right atrium through the whole double circulation system back to the right atrium.</b><br>Respiratory system – describe the parts of the respiratory system and how the structures help each function. Describe how we breathe in and out.<br>Tissues and organs in plants. Phloem and xylem how they work.<br>Transpiration – what it is and how it works.<br><b>Try labelling a diagram of a plant showing how water moves from the soil to evaporation from leaves</b> | Labelled diagram and journey of blood description |  | 11 |
| <b>March</b>                  |   |   |   |  |    |
| <b>Monday 4<sup>th</sup></b>  | <b>B5+6 – Communicable diseases and prevention and treatment (paper 1 p4)</b> | 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. <b>A revision table works well for this.</b><br>Plant defences + mineral deficiencies and how to spot disease in plants.<br>For bacteria and viruses – learn the differences between them and how they cause disease   | Teams quiz  |  | 10 |

|                               |   |   |                    |  |   |
|-------------------------------|---|---|--------------------|--|---|
|                               |   | Human defence – primary defences and the immune system.<br>Vaccination (learn this along with the immune response). Antibiotics and painkillers.<br>Discovering and developing drugs.<br>Monoclonal antibodies – how they are made and how they are used.   |                    |  |   |
| <b>Monday 11<sup>th</sup></b> | <b>B 7 – Non-communicable diseases and data analysis</b>    | Cancer, what it is, risk factors and prevention<br>Smoking damage and risk of disease<br>Diet and exercise and links to health<br>Alcohol and other carcinogens and their effects on the body.<br><b>This week will give us a chance of looking at how data is analysed including causal and correlation links.</b>   | Data analysis<br>Q |  | 9 |
| <b>Monday 18<sup>th</sup></b> | <b>B8 – Photosynthesis (paper 1 p5)</b>                     | 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.<br>Limiting factors – including graph interpretation and economical implications in greenhouses<br>Explain and use inverse proportion in the context of photosynthesis.<br><b>Required practical 6 – effect of light intensity on rate of photosynthesis</b><br>Use of glucose in plants – including respiration, starch, cellulose, lipids and proteins. <b>The starch test is not a RP but it is useful to recap here in relation to photosynthesis.</b> | Teams quiz         |  | 8 |
| <b>Monday 25<sup>th</sup></b> | <b>B9 – Respiration (paper 1 p5)</b>                        | Respiration as a chemical reaction including how the body gets the raw materials to the mitochondria and how waste products are removed.<br>Response of the body to exercise including aerobic and anaerobic responses –lactic acid and oxygen debt<br>Comparison of aerobic and anaerobic respiration.<br>Metabolism, definition and importance and the liver.   | Teams quiz         |  | 7 |
| <b>April</b>                  |   |   |                    |  |   |
| <b>Monday 1<sup>st</sup></b>  | <b>Genetics and reproduction - B13 – 15 (paper 2, p7-8)</b> | Use the PLC to check the topic content. These last 2 modules are our most recent work<br>Likely areas to recap:<br>DNA structure and protein synthesis<br>Genetic engineering<br>Cloning<br>Ethics of genetic technologies<br>Evolution and speciation<br>Classification.:  |                    |  | 6 |

|                               |   |   |  |  |   |
|-------------------------------|---|---|--|--|---|
| <b>Monday 8<sup>th</sup></b>  | <b>Ecology, B16-18<br/>(Paper2, p9)</b> | Use the PLC to check the topic content. These last 2 modules are our most recent work<br>Likely areas to recap:<br>Carbon cycle<br>Deforestation and peat destruction<br>Trophic layers and biomass |  |  | 5 |
| <b>Monday 15<sup>th</sup></b> | Paper 1                                 | General paper 1 revision  |  |  | 4 |
| <b>Monday 22<sup>nd</sup></b> | Required practicals                     | <a href="https://www.physicsandmathstutor.com/biology-revision/gcse-aqa/practical-skills/">https://www.physicsandmathstutor.com/biology-revision/gcse-aqa/practical-skills/</a>                     |  |  | 3 |
| <b>Monday 29<sup>th</sup></b> | Paper 1                                 | General paper 1 revision  |  |  | 2 |
| <b>May</b>                    |   |   |  |  |   |
| <b>Monday 6<sup>th</sup></b>  | Paper 1                                 | General paper 1 revision - <b>Paper 1 Friday 10<sup>th</sup> May</b>  |  |  | 1 |
| <b>Monday 13<sup>th</sup></b> |   |   |  |  | 0 |
| <b>Monday 20<sup>th</sup></b> |   |   |  |  | 0 |
| <b>Monday 27<sup>th</sup></b> | Paper 2                                 | General paper 2 revision  |  |  | 0 |
| <b>June</b>                   |   |   |  |  |   |
| <b>Monday 3<sup>rd</sup></b>  | Paper 2                                 | General paper 2 revision – <b>Paper 2 Friday 7<sup>th</sup> June</b>  |  |  | 0 |