



## AQA GCSE Separate Sciences Year 10 Mock Revision List

**Year 10 Science Mock – Tuesday 1<sup>st</sup> July. 1 hour 30 minutes.**

The Year 10 Science mock exam will have three sections – Biology, Chemistry & Physics. Questions will assess the following units:

<b>Biology units assessed:</b> <ul style="list-style-type: none"><li>• B1 – Cell Biology</li><li>• B4 – Bioenergetics</li></ul>	<b>Biology required practical activities:</b> <ul style="list-style-type: none"><li>• Microscopy: Use a light microscope to observe, draw and label a selection of plant and animal cells.</li><li>• Microbiology: Investigate the use of antiseptics or antibiotics on bacterial growth using agar plates.</li><li>• Osmosis: Investigate the effect of a range of concentration of salt or sugar solutions on the mass of plant tissue.</li><li>• Photosynthesis: Investigate the effect of light intensity on the rate of photosynthesis using an aquatic organism such as pondweed.</li></ul>
<b>Chemistry units assessed:</b> <ul style="list-style-type: none"><li>• C1 – Atomic Structure &amp; Periodic Table</li><li>• C2 – Structure &amp; Bonding</li><li>• C3 – Quantitative Chemistry</li></ul>	<b>Chemistry required practical activities:</b> N/A
<b>Physics units assessed:</b> <ul style="list-style-type: none"><li>• P2 – Electricity</li><li>• P3 – Particle Model of Matter</li></ul>	<b>Physics required practical activities:</b> <ul style="list-style-type: none"><li>• Resistance: Investigating the resistance of an electrical circuit by changing the length of a wire.</li><li>• Resistance: Investigating the resistance of an electrical circuit by changing using combinations of resistors in series and parallel.</li><li>• I-V characteristics: Investigate the I-V characteristics of a filament lamp, a fixed resistor and a diode.</li><li>• Density: Use appropriate apparatus to make and record the measurements needed to determine the densities of regular and irregular objects.</li></ul>



# Testbourne Community School

## **Essential equipment**

Black pens, pencils, rubber, 30cm ruler, protractor and scientific calculator.

## **Mathematical skills**

An equation list will be provided to support with the physics mathematical questions.

## **Working scientifically**

Working scientifically will be tested in questions relating to the required practical activities completed – relevant required practical activities are shown above for each unit studied.

## **Revision materials**

CGP Grade 9-1 GCSE Biology, Chemistry, and Physics: AQA revision guides and workbooks. Revision resources on Teams, SharePoint, GCSEpod and kerboodle.

## **Suggested revision activities**

Make mind maps, revision mats or flash cards for each topic. Answer practice exam questions and use mark schemes to check and correct your answers. There are practice questions and mark schemes on SharePoint. Log in to GCSEpod and Kerboodle and use the revision materials and online tests. You can also use [senecalearning.com](https://www.senecalearning.com), but ensure you select the right exam board and tier (AQA GCSE Biology, AQA GCSE Chemistry, or AQA GCSE Physics).