

## Science – Foundation Tier

Below is a 6-week revision plan that will support your revision in the lead up to your PPE in March.

For each week there is a Educake quiz set for Biology, Chemistry and Physics. Regardless of who your normal teachers are, the Biology quiz will be set by Mr Rooke, the Physics quiz by Mr Nicholls and the Chemistry quiz, Mr Miles.

The topics covered in each quiz are detailed below. For each week there is also a BBC bitesize link and some video links that will support your revision and help you to complete the quiz.

Each quiz should take you around 10-15 minutes. You should complete a Biology, Chemistry and Physics quiz each week. Aim to score at least 80%. You can repeat the quiz as many times as you like. Educake also provides you with study slides which can be used to support your revision.

If you are not able to get logged onto Educake you must speak to or email your Science teacher so they can reset your password.

Please remember you should also be using some of the below strategies and the Science topic lists to prepare for your PPE.

- Read, Cover, Write, Check,
- Flashcards
- Mind maps

If you are needing support with any revision strategies, please speak to your Science teacher.

## Biology

Week	Educake Quiz	BBC Bitesize link	Youtube video
w/c 15 <sup>th</sup> Jan	Quiz 1 – Ecological relationships and carbon cycle	<a href="#">The carbon cycle - Natural cycles and decomposition - Edexcel - GCSE Combined Science Revision - Edexcel - BBC Bitesize</a>  <a href="#">Parasitism and mutualism - Adaptations, interdependence and competition - Edexcel - GCSE Combined Science Revision - Edexcel - BBC Bitesize</a>	<a href="#">GCSE Biology Revision "The Carbon Cycle" (youtube.com)</a>
w/c 22 <sup>nd</sup> Jan	Quiz 2 – Use of a quadrat and transect	<a href="#">Levels of organisation - Organisation of an ecosystem - Edexcel - GCSE Combined Science Revision - Edexcel - BBC Bitesize</a>	<a href="#">GCSE Biology Revision "Sampling Organisms" (youtube.com)</a>

w/c 29 <sup>th</sup> Jan	Quiz 3 -The heart and blood vessels	<a href="#">Blood vessels - Cellular respiration and transport - Edexcel - GCSE Combined Science Revision - Edexcel - BBC Bitesize</a>  <a href="#">The heart - Cellular respiration and transport - Edexcel - GCSE Combined Science Revision - Edexcel - BBC Bitesize</a>	<a href="#">GCSE Biology Revision "Arteries, Veins and Capillaries" (youtube.com)</a>  <a href="#">GCSE Biology Revision "The Heart and Circulation" (youtube.com)</a>
w/c 5 <sup>th</sup> Feb	Quiz 4– Respiration	<a href="#">Blood - Cellular respiration and transport - Edexcel - GCSE Combined Science Revision - Edexcel - BBC Bitesize</a>	<a href="#">GCSE Biology Revision "Respiration" (youtube.com)</a>  <a href="#">Pearson Edexcel (9-1) GCSE Combined Science and GCSE Biology practical - rate of respiration (youtube.com)</a>
w/c 12 <sup>th</sup> Feb	Quiz 5 – Enzymes	<a href="#">What are enzymes? - Enzymes - Edexcel - GCSE Combined Science Revision - Edexcel - BBC Bitesize</a>	<a href="#">GCSE Biology Revision "Effect of Temperature and pH on Enzymes" (youtube.com)</a>
w/c 19 <sup>th</sup> Feb	Quiz 6 – Hormones, Menstrual cycle and contraception	<a href="#">Animal coordination, control and homeostasis - GCSE Combined Science - BBC Bitesize</a>	<a href="#">GCSE Biology Revision "The Endocrine System" (youtube.com)</a>  <a href="#">GCSE Biology Revision "The Menstrual Cycle" (youtube.com)</a>  <a href="#">GCSE Biology Revision "Control of Blood Glucose Concentration" (youtube.com)</a>  <a href="#">GCSE Biology Revision "Contraception" (youtube.com)</a>

## Chemistry

Week	Educake Quiz	BBC Bitesize link	Youtube video
w/c 15 <sup>th</sup> Jan	Quiz 1 – Atomic Structure	<a href="#">Structure of the atom - Atomic structure - Edexcel - GCSE Combined Science Revision - Edexcel - BBC Bitesize</a>	<a href="#">GCSE Physics - Atomic Structure, Isotopes &amp; Electrons Shells #32 (youtube.com)</a>
w/c 22 <sup>nd</sup> Jan	Quiz 2 –Covalent Bonding and metallic properties	<a href="#">Substances with many covalent bonds - Giant covalent substances - Edexcel - GCSE Combined Science Revision - Edexcel - BBC Bitesize</a>	<a href="#">GCSE Chemistry - Covalent Bonding #16 (youtube.com)</a>
w/c 29 <sup>th</sup> Jan	Quiz 3 - Group 1 and Group 7	<a href="#">Groups in the periodic table - GCSE Combined Science - BBC Bitesize</a>	<a href="#">GCSE Chemistry - Halogens and Noble Gases #12 (youtube.com)</a>
w/c 5 <sup>th</sup> Feb	Quiz 4– Rates of reactions	<a href="#">What is a rate of reaction? - Rates of reaction - Edexcel - GCSE Combined Science Revision - Edexcel - BBC Bitesize</a>	<a href="#">GCSE Chemistry - Rates of Reaction #46 (youtube.com)</a>
w/c 12 <sup>th</sup> Feb	Quiz 5 – Exothermic and Endothermic	<a href="#">Endothermic and exothermic reactions - Heat energy changes in chemical reactions - Edexcel - GCSE Combined Science Revision - Edexcel - BBC Bitesize</a>	<a href="#">GCSE Chemistry - Exothermic and Endothermic Reactions #43 (youtube.com)</a>
w/c 19 <sup>th</sup> Feb	Quiz 6 – Earth's Atmosphere	<a href="#">The Earth's early atmosphere - Earth and atmospheric science - Edexcel - GCSE Combined Science Revision - Edexcel - BBC Bitesize</a>	<a href="#">GCSE Chemistry - Evolution of the Atmosphere #67 (youtube.com)</a>

## Physics

Week	Educake Quiz	BBC Bitesize link	Youtube video
w/c 15 <sup>th</sup> Jan	Quiz 1 – Gravitational Potential Energy	<a href="#">Calculating energy changes - Transferring energy - Edexcel - GCSE Combined Science Revision - Edexcel - BBC Bitesize</a>	<a href="#">GCSE Physics - Gravity, Weight and GPE #3 (youtube.com)</a>

<b>w/c 22<sup>nd</sup> Jan</b>	Quiz 2 –Investigating Resistance – Core practical	<a href="#">Required practical - investigate current - voltage graphs - Electric circuits - Edexcel - GCSE Combined Science Revision - Edexcel - BBC Bitesize</a>	<a href="#">Pearson Edexcel (9-1)   SHORTS   Investigating resistance in circuits   GCSE Comb Sci   GCSE Physics (youtube.com)</a>
<b>w/c 29<sup>th</sup> Jan</b>	Quiz 3 -Using Charge equation.	<a href="#">Electrical charge and current - Electric circuits - Edexcel - GCSE Combined Science Revision - Edexcel - BBC Bitesize</a>	<a href="#">GCSE Physics - Charge, Current &amp; Time #16 (youtube.com)</a>
<b>w/c 5<sup>th</sup> Feb</b>	Quiz 4– Magnetism	<a href="#">Types of magnets - Magnets and magnetic fields - Edexcel - GCSE Combined Science Revision - Edexcel - BBC Bitesize</a>	<a href="#">GCSE Physics - Permanent &amp; Induced Magnets #77 (youtube.com)</a>  <a href="#">GCSE Physics - What Are Magnets? How to Draw Magnetic Field Lines #76 (youtube.com)</a>
<b>w/c 12<sup>th</sup> Feb</b>	Quiz 5 – National Grid and Transformers	<a href="#">Multiple choice questions - Sample exam questions - electromagnetic induction - Edexcel - GCSE Combined Science Revision - Edexcel - BBC Bitesize</a>	<a href="#">GCSE Physics - National Grid #20 (youtube.com)</a>
<b>w/c 19<sup>th</sup> Feb</b>	Quiz 6 – Particle theory, Kelvin Scale, Core practical – Investigating densities	<a href="#">Required practical - how to calculate density - Density of materials - Edexcel - GCSE Physics (Single Science) Revision - Edexcel - BBC Bitesize</a>  <a href="#">States of matter - Temperature changes and energy - Edexcel - GCSE Combined Science Revision - Edexcel - BBC Bitesize</a>	<a href="#">Pearson Edexcel (9-1) Combined Science &amp; GCSE Physics Investigating the density of solids &amp; liquids (youtube.com)</a>  <a href="#">Kelvin Scale and Absolute Zero   9-1 GCSE Physics   OCR, AQA, Edexcel (youtube.com)</a>