

Year 11 Combined Science – Foundation - Revision Plan Autumn 2 PPE

Below are some suggestions for revision that you can complete over the next three weeks – Please also make sure you are using the topic lists to ensure that you have covered everything needed for your exams. Any questions please speak to your Science teacher. You also have Educake quizzes that you can use to help with revision.

<u>Week</u>	<u>Topic Area</u>	<u>Video Link</u>	<u>Activity</u>	<u>Exam question: EXTENSION</u>
1 Week beginning 30th October	<u>Biology</u> Cells and Microscopes	<u>Biology</u> https://bridgwatercollegetrust.planetestream.com/View.aspx?id=940~3A~JRR4x4 https://www.bbc.co.uk/bitesize/guides/zg9mk2p/revision/5	<u>Biology</u> - Answer exam questions in the video (27 minutes –39 minutes and 52 minutes to the end) Make sure you pause the video before the answers are displayed and then mark your work once you have had a go at the questions. OR - Create revision cards/flashcards which show the difference between an animal and a plant cell. Make sure they include the functions of each of the different parts to the cells.	<u>Biology</u> Describe how a light microscope can be used to view animal and plant cells (6 marks)
	<u>Chemistry</u> Acids and Alkalis	<u>Chemistry</u> https://bridgwatercollegetrust.planetestream.com/View.aspx?id=1080~4j~JOMfkbus https://www.bbc.co.uk/bitesize/guides/z8jt4qt/revision/1	<u>Chemistry</u> - Answer exam questions and factual recall questions in the video. Make sure you pause the video before the answers are displayed and then mark your work once you have had a go	<u>Chemistry</u> Describe how pure, dry copper sulfate crystals can be produced (6 marks)

			<p>at the questions.</p> <p>OR</p> <ul style="list-style-type: none"> - Create revision cards/flashcards which show the setup for preparing pure dry, copper sulfate. Include labelled diagrams of the equipment needed 	
	<p>Physics Motion and Acceleration</p>	<p>Physics https://bridgwatercollegetrust.planetestream.com/View.aspx?id=1381~4n~NNVw9kmG https://www.bbc.co.uk/bitesize/topics/zcw22nb</p>	<p>Physics</p> <ul style="list-style-type: none"> - Answer exam questions and factual recall questions in the video. Make sure you pause the video before the answers are displayed and then mark your work once you have had a go at the questions. <p>OR</p> <ul style="list-style-type: none"> - Create revision cards/flashcards to show what different lines on a distance time graph show 	<p>Physics Describe how the average speed of the trolley can be calculated (4 marks)</p> <p><small>Figure 9 shows the trolley and runway.</small></p>  <p><small>Figure 9</small></p>

<p>2</p> <p>Week beginning 6th November</p>	<p>Biology Genetics</p>	<p>Biology https://bridgwatercollegetrust.planetestream.com/View.aspx?id=1350~4j~J0Mik8us</p> <p>https://www.bbc.co.uk/bitesize/topics/zxyggdm</p>	<p>Biology</p> <ul style="list-style-type: none"> - Complete the factual recall questions and the exam questions at the end of the video. Make sure you pause the video before the answers are displayed and then mark your work once you have had a go at the questions. <p>OR</p> <ul style="list-style-type: none"> - Create revision cards with the key words and definitions (homozygous, heterozygous, dominant, recessive, haploid, diploid, sexual, asexual, variation) 	<p>Biology</p> <p>Explain one advantage and one disadvantage to sexual and asexual reproduction (4 marks)</p>
	<p>Chemistry Bonding – Ionic and Covalent</p>	<p>Chemistry https://bridgwatercollegetrust.planetestream.com/View.aspx?id=965~3H~rBTXrr</p> <p>https://www.bbc.co.uk/bitesize/guides/zgmpgdm/revision/2</p>	<p>Chemistry</p> <ul style="list-style-type: none"> - Complete the factual recall questions and the exam questions in the video. Make sure you pause the video before the answers are displayed and then mark your work once you have had a go at the questions. <p>OR</p> <ul style="list-style-type: none"> - Create revision cards which explain the difference between ionic, covalent and metallic bonding 	<p>Chemistry</p> <p>Describe the difference between an ionic and covalent bond (4 marks)</p>

	Physics Energy Transfers	Physics https://bridgwatercollegetrust.planetestream.com/View.aspx?id=982~3G~R0EoHp https://www.bbc.co.uk/bitesize/guides/zpgtjty/revision/1	Physics - Answer exam questions and factual recall questions in the video. Make sure you pause the video before the answers are displayed and then mark your work once you have had a go at the questions. OR - Create revision cards/flashcards to describe the different ways that energy can be stored and the different ways that energy can be transferred.	Physics Explain what the main energy transfer for an apple is falling from a tree (3 marks)
3 Week beginning 13th November	Biology Health and Disease	Biology https://bridgwatercollegetrust.planetestream.com/View.aspx?id=1131~4g~eQSCeWNB https://www.bbc.co.uk/bitesize/guides/z83qfcw/revision/1	Biology - Complete Exam questions in video (From 30 minutes onwards) Make sure you pause the video before the answers are displayed and then mark your work once you have had a go at the questions. OR - Create a revision card which shows how antibiotics work– Include pictures and key words	Biology Colistin is an antibiotic used to treat infections in the bloodstream. Some bacteria are resistant to Colistin. Explain how these bacteria have become resistant to Colistin. (4 marks)
	Chemistry Electrolysis	Chemistry https://bridgwatercollegetrust.planetestream.com/View.aspx?id=1241~4i~hewEA8j7 (0-9 minutes, 23minutes – 34 minutes)	Chemistry - Complete the factual recall	Chemistry Some metals are found uncombined, but others have

		<p>https://www.bbc.co.uk/bitesize/guides/zgn8b82/revision/2</p>	<p>questions in video (23-34 minutes) Make sure you pause the video before the answers are displayed and then go back and mark your work</p> <p>OR</p> <ul style="list-style-type: none"> - Create revision cards/flashcards which define the key words (Cation, Anion, Oxidation, Reduction, Electrolysis, Cathode, Anode, Electrolyte, Electrode) 	<p>to be extracted from their ores by electrolysis. Explain using aluminum, gold and iron as examples, which methods should be used to extract these metals and why (6 marks)</p>
	<p>Physics Waves</p>	<p>Physics https://bridgwatercollegetrust.planetestream.com/View.aspx?id=1204~4h~GDh3Q570</p> <p>https://www.bbc.co.uk/bitesize/topics/zsb44qt</p>	<p>Physics</p> <ul style="list-style-type: none"> - Answer exam questions and factual recall questions in the video. Make sure you pause the video before the answers are displayed and then mark your work once you have had a go at the questions. <p>OR</p> <ul style="list-style-type: none"> - Create revision cards/flashcards to describe the difference between a transverse and longitudinal wave. Include a diagram that labels the different parts to a wave 	<p>Physics Explain the differences between transverse and longitudinal waves (6 marks)</p>

Triple Content Only: Look at the below links for support with additional Triple Only content

Suggested Revision strategy - Read through the information and create a mind map or flash card of the key facts and key words.

Biology

The eye and the brain -

<https://www.bbc.co.uk/bitesize/guides/zpkhcj6/revision/7>

<https://www.bbc.co.uk/bitesize/guides/zpkhcj6/revision/4>

Antibiotics Core practical -

<https://www.bbc.co.uk/bitesize/guides/zyxg7p3/revision/11>

Chemistry

Titration -

<https://www.bbc.co.uk/bitesize/guides/zg9rxfr/revision/3>

Transition metals/Alloying/Corrosion -

<https://www.bbc.co.uk/bitesize/guides/zqsxrxw/revision/1>

Physics

Astronomy -

<https://www.bbc.co.uk/bitesize/guides/z9ncqhv/revision/1>

<https://www.bbc.co.uk/bitesize/guides/zwv8xfr/revision/1>