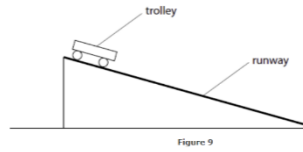


Year 11 Combined Science – Higher - Revision Plan Autumn 2 PPE

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> Enzymes	<u>Biology</u> https://bridgwatercollegetrust.planetestream.com/View.aspx?id=1063~4k~jCaEVkFQ https://www.bbc.co.uk/bitesize/guides/z88hcj6/revision/1	<u>Biology</u> - Answer 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. OR - Create revision cards/flashcards which show how enzymes work. Include labelled diagrams	<u>Biology</u> Describe how you would set up an investigation to determine the optimum pH for enzyme activity (6 marks)
	<u>Chemistry</u> Acids and Alkalis	<u>Chemistry</u> https://bridgwatercollegetrust.planetestream.com/View.aspx?id=1080~4j~J0Mfkbus 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 at the questions. OR - Create revision cards/flashcards which show the setup for preparing pure dry, copper sulfate. Include	<u>Chemistry</u> Describe how pure, dry copper sulfate crystals can be produced (6 marks)

			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/guides/z2x9v9q/revision/3</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>2 Week beginning 6th November</p>	<p>Biology Genetics</p>	<p>Biology https://bridgwatercollegetrust.planetestream.com/View.aspx?id=1350~4j~J0Mik8us https://www.bbc.co.uk/bitesize/topics/zyh9fcw</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, 	<p>Biology Explain one advantage and one disadvantage to sexual and asexual reproduction (4 marks)</p>

			heterozygous, dominant, recessive, haploid, diploid, sexual, asexual, variation)	
Chemistry Bonding – Ionic and Covalent	Chemistry https://bridgwatercollegetrust.planetestream.com/View.aspx?id=965~3H~rBTXrr https://www.bbc.co.uk/bitesize/guides/zgmpgdm/revision/2	Chemistry - 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. OR - Create revision cards which explain the difference between ionic, covalent and metallic bonding	Chemistry Describe the difference between an ionic and covalent bond (4 marks)	
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	Physics Explain what the main energy transfer for an apple is falling from a tree (3 marks)	

			<p>work once you have had a go at the questions.</p> <p>OR</p> <ul style="list-style-type: none"> - Create revision cards/flashcards to describe the different ways that energy can be stored and the different ways that energy can be transferred. 	
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 <ul style="list-style-type: none"> - 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. <p>OR</p> <ul style="list-style-type: none"> - 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) https://www.bbc.co.uk/bitesize/guides/zgn8b82/revision/2	Chemistry <ul style="list-style-type: none"> - Complete the factual recall 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>OR</p>	Chemistry Some metals are found uncombined, but others have 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)

			<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>Physics Electromagnetic spectrum</p>	<p>Physics https://bridgwatercollegetrust.planetestream.com/View.aspx?id=1349~4r~SzdzPBf3 https://www.bbc.co.uk/bitesize/guides/z32f4qt/revision/1</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 parts to the electromagnetic spectrum 	<p>Physics The picture shows a woman checking that a banknote is genuine. She is using a lamp which emits a radiation which is part of the electromagnetic spectrum. Explain how two different electromagnetic radiations enable the woman to check the banknote. (3 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>

Protein synthesis -

<https://www.bbc.co.uk/bitesize/guides/z3mbqhv/revision/6>

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>

Dynamic Equilibrium

<https://www.bbc.co.uk/bitesize/guides/z26wfcw/revision/1>

Physics

Astronomy -

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

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