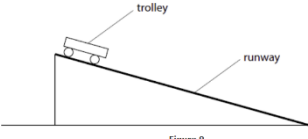


Year 10 Combined Science – Foundation - Revision Plan June 2024

<u>Week</u>	<u>Topic Area</u>	<u>Video Link</u>	<u>Activity- choose one or more!</u>	<u>Exam question: EXTENSION</u>
Week 1: 29 th April	<u>Biology</u> Cells and Microscopes	<u>Biology</u> https://bridgewatercollegetrust.planetestream.com/View.aspx?id=940~3A~JRR4x4 https://www.bbc.co.uk/bitesize/guides/zg9mk2p/revision/5	<u>Biology</u> <ul style="list-style-type: none"> - Complete this week's Educake. - 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. - 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://bridgewatercollegetrust.planetestream.com/View.aspx?id=1080~4j~JOMfkbus https://www.bbc.co.uk/bitesize/guides/z8it4qt/revision/1	<u>Chemistry</u> <ul style="list-style-type: none"> - Complete this week's Educake. - 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. - Create revision cards/flashcards which show the setup for preparing pure dry, copper sulfate. Include labelled diagrams of the equipment needed . 	<u>Chemistry</u> Describe how pure, dry copper sulfate crystals can be produced (6 marks)
	<u>Physics</u> Motion and Acceleration	<u>Physics</u> https://bridgewatercollegetrust.planetestream.com/View.aspx?id=1381~4n~NNVw9kmG	<u>Physics</u> <ul style="list-style-type: none"> - Complete this week's Educake. - 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. 	<u>Physics</u> Describe how the average speed of the trolley can be calculated (4 marks)

		https://www.bbc.co.uk/bitesize/topics/zcw22nb	<ul style="list-style-type: none"> - Create revision cards/flashcards to show what different lines on a distance time graph show 	<p>Figure 9 shows the trolley and runway.</p>  <p>Figure 9</p>
Week 2 6th May	Biology Genetics	<p>Biology https://bridgewatercollegetrust.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 this week's Educake. - 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. - 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>
	Chemistry Bonding – Ionic and Covalent	<p>Chemistry https://bridgewatercollegetrust.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 this week's Educake. - 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. - 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	<p>Physics https://bridgewatercollegetrust.planetestream.com/View.aspx?id=982~3G~R0EoHp</p> <p>https://www.bbc.co.uk/bitesize/guides/zpgtjty/revision/1</p>	<p>Physics</p> <ul style="list-style-type: none"> - Complete this week's Educake. - 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. - Create revision cards/flashcards to describe the different ways that energy can be stored 	<p>Physics</p> <p>Explain what the main energy transfer for an apple is falling from a tree (3 marks)</p>

			and the different ways that energy can be transferred.	
Week 3 13th May	Biology Health and Disease	Biology https://bridgewatercollegetrust.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 this week's Educake. - 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. - 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://bridgewatercollegetrust.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 this week's Educake. - 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 - Create revision cards/flashcards which define the key words (Cation, Anion, Oxidation, Reduction, Electrolysis, Cathode, Anode, Electrolyte, Electrode) 	Chemistry Impure copper can be purified using electrolysis. The impure copper is used as the anode. A pure copper cathode is used. The electrodes are placed in copper sulfate solution. A direct electric current is passed through the solution. Describe and explain what is seen when this apparatus is used to purify a piece of impure copper. (6 marks)
	Physics Waves and EM uses	Physics https://bridgewatercollegetrust.planetestream.com/View.aspx?id=1204~4h~GDh3Q57O https://www.bbc.co.uk/bitesize/topics/zsb44qt	Physics <ul style="list-style-type: none"> - Complete this week's Educake. - 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. - Create revision cards/flashcards to describe the difference between a transverse and 	Physics Explain the differences between transverse and longitudinal waves (6 marks)

			longitudinal wave. Include a diagram that labels the different parts to a wave	
Week 4 20 th May	Biology- cells and control	Cells and control - GCSE Combined Science - BBC Bitesize	<ul style="list-style-type: none"> - Complete this week's Educake. - Draw out and label the stages of the cell cycle and specifically the phases in mitosis. 	What is the structure and function of a reflex arc? (6)
	Chemistry- Chromatography	https://youtu.be/TdJ57SQ6GAQ	<ul style="list-style-type: none"> - Complete this week's Educake. - Complete the exam questions topic 2- Methods of separating and purifying mixtures found here: https://cognitoresources.org/resources/gcse/qsbytopic/chemistry/edexcel 	Describe how to carry out chromatography, including the equipment needed, the method and how to analyze the results to obtain an Rf value (6 marks)
	Physics- Radioactivity structure of the atom	Radioactivity - GCSE Combined Science - BBC Bitesize GCSE Physics - Alpha, Beta and Gamma Radiation #33 (youtube.com)	<ul style="list-style-type: none"> - Complete this week's Educake. - 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. - Create revision cards/flashcards to describe the different types of radiation, their ionizing ability and penetration. 	When radioactive sources are stored in boxes in schools, the boxes are always lined with lead. Explain why this is necessary. (4 marks)
Week 5 27 th May	Biology- natural selection and genetic modification	Darwin's theory of evolution - Evolution - Edexcel - GCSE Combined Science Revision - Edexcel - BBC Bitesize	<ul style="list-style-type: none"> - Evaluate the uses of selective breeding and genetic engineering by completing a pros and cons table - Complete this weeks educake 	<u>Evaluate the use genetic engineering and selective breeding on modern farming to create genetically modified organisms.</u>
	Chemistry- Calculations	https://youtu.be/it_fMQu5ivg	<ul style="list-style-type: none"> - Complete this week's Educake. - Complete the exam questions Topic 1- Calculations involving masses https://cognitoresources.org/resources/gcse/qsbytopic/chemistry/edexcel 	n/a
	Physics- Radioactivity- decay and half lives	Half-lives GCSE Physics - Radioactive Decay and Half Life #35 (youtube.com) Half-life - Nuclear radiation - Edexcel - GCSE Combined	<ul style="list-style-type: none"> - Complete this week's Educake. 	A frozen mammoth body has been found in ice in Norway. The Norwegian government has given you a 1 kg sample of the body. For 1 kg of living mammoth flesh, the activity would be 4000 becquerel (Bq) from carbon-14 decay. Your sample gives a reading of

		Science Revision - Edexcel - BBC Bitesize		250 Bq. The half-life of carbon-14 is 5700 years. A) How many half-lives must have passed for the activity to change from 4000 Bq to 250 Bq? b) How long ago did the mammoth die?
Week 6 3 rd June	<u>Biology- Paper 1 overview</u>	https://www.cognitoresources.org/	<ul style="list-style-type: none"> - Revisit challenging areas from last 5 weeks, - Check educake scores and redo any below 80% 	
	<u>Chemistry-</u> Paper 1 overview	https://www.cognitoresources.org/	<ul style="list-style-type: none"> - Revisit challenging areas from last 5 weeks, - Check educake scores and redo any below 80% 	n/a
	<u>Physics-</u> Paper 1 overview	https://www.cognitoresources.org/	<ul style="list-style-type: none"> - Revisit challenging areas from last 5 weeks, - Check educake scores and redo any below 80% 	n/a