



Miss Burke – Science homework

Set week beginning	Homework Description					Due date Week beginning
	Year 7 7U2	Year 8 8U3	Year 8 8F2	Year 9 9U1	Year 10 10U2	
February 24, 2020	<p>Draw a cartoon to describe and explain what happens during a displacement reaction.</p> <p>Kerboodle 6.2.6</p>	<p>Find names and pictures of a sedimentary, igneous, and metamorphic rock. Describe the properties and uses of each.</p> <p>Kerboodle 7.1.3</p>	<p>Find names and pictures of a sedimentary, igneous, and metamorphic rock. Describe the properties and uses of each.</p> <p>Kerboodle 7.1.3</p>	<p>Calculate the surface area of one 10 cm × 10 cm × 10 cm cube.</p> <p>Calculate the surface area of ten 1 × cm × 1 cm × 1 cm cubes. What is the difference?</p> <p>Why are exchange surfaces in plants and animals adapted to increase their surface area? Use your calculations as evidence.</p> <p>Kerboodle B1.10</p>	<p>Imagine you are going to investigate how the concentration of hydrochloric acid affects the rate of reaction with magnesium ribbon. Make a prediction of what you would expect your results to be. Design a results table and sketch a graph of the predicted results. Explain your answers using your knowledge of collision theory.</p> <p>Kerboodle C8.4</p>	February 28, 2020
March 2, 2020	<p>Find the power rating of some electrical appliances around the home. List these appliances in order of power. State the relevance power rating has on an energy bill. Make sure you are supervised by an adult when checking appliances.</p> <p>Kerboodle 3.1.3</p>	<p>Produce a coloured poster of the rock cycle, with full labels and descriptions of each possible stage.</p> <p>Kerboodle 7.1.4</p>	<p>Produce a coloured poster of the rock cycle, with full labels and descriptions of each possible stage.</p> <p>Kerboodle 7.1.4</p>	<p>Write a short report about whether you think that scientists should carry on with stem cell research.</p> <p>Kerboodle B2.4</p>	<p>You have been commissioned to write a GCSE Science blog. You have 250 words and a maximum of three image to explain energy and reversible reactions.</p> <p>Kerboodle C8.7</p>	March 6, 2020
March 9, 2020	<p>Research the history of efficiency labels on appliances and what they mean.</p> <p>Present your findings in a leaflet.</p> <p>Kerboodle 3.2.2</p>	<p>Research the evidence for the effect of mobile phone radiation on the brain. Write a paragraph giving your opinion and justifying it with evidence.</p> <p>Kerboodle 4.3.2</p>	<p>Research the evidence for the effect of mobile phone radiation on the brain. Write a paragraph giving your opinion and justifying it with evidence.</p> <p>Kerboodle 4.3.2</p>	<p>Research the structure of food molecules and their function on the body. Produce a healthy eating plan for students using the information you have found.</p> <p>Kerboodle B3.3</p>	<p>Sketch a graph for the reaction of hydrogen and iodine gas. Why does changing the pressure have no effect on this reaction?</p> <p>Kerboodle C8.9</p>	March 13, 2020
March 16, 2020	<p>Write a short paragraph explaining how high-pitched 'mosquito' alarms can be used to deter anti-social teens from loitering outside shops.</p> <p>Kerboodle 4.1.3</p>	<p>Research how noise-reduction headphones work. Produce a leaflet explaining the science behind them.</p> <p>Kerboodle 4.4.1</p>	<p>Research how noise-reduction headphones work. Produce a leaflet explaining the science behind them.</p> <p>Kerboodle 4.4.1</p>	<p>Create a script and a storyboard for an animation showing how enzymes work.</p> <p>Kerboodle B3.4</p>	<p>Write equations for the complete and incomplete combustion of the first four alkanes.</p> <p>Kerboodle C9.3</p>	March 20, 2020

<p>March 23, 2020</p>	<p>Copy the diagram. Predict the position of the image formed by the mirror by completing this ray diagram. Check your answer using a mirror of your own if possible.</p> <p>Kerboodle 4.2.2</p>	<p>Write postcards from the viewpoint of a tourist from the UK visiting four different countries in one month. Describe the differences in temperature and day-length the tourist experiences.</p> <p>Kerboodle 7.2.3</p>	<p>Write postcards from the viewpoint of a tourist from the UK visiting four different countries in one month. Describe the differences in temperature and day-length the tourist experiences.</p> <p>Kerboodle 7.2.3</p>	<p>How will you revise the human digestive system before your exams? Make some revision notes or a podcast that summarised what you have learnt.</p> <p>Kerboodle B1.1-3</p>	<p>Research what takes place during industrial cracking. Why is it important? Use the WebQuest as a starting point for your research.</p> <p>Kerboodle C9.4</p>	<p>March 27, 2020</p>
<p>March 30, 2020</p>	<p>Research coloured lights and how they mix. Use this research to produce a fact-sheet for an amateur theatre group to help them plan lighting schemes in shows. You will need to access the Web Quest for your homework.</p> <p>Kerboodle 4.2.5</p>	<p>Make a poster about the people who have had ideas about our place in the Universe.</p> <p>Describe the way that ideas about it have developed over time, and the evidence that the people used to produce their ideas.</p> <p>Kerboodle 7.2.4</p>	<p>Make a poster about the people who have had ideas about our place in the Universe.</p> <p>Describe the way that ideas about it have developed over time, and the evidence that the people used to produce their ideas.</p> <p>Kerboodle 7.2.4</p>	<p>Write down 10 short and interesting facts about the lungs and gas exchange.</p> <p>Kerboodle B 4.5</p>	<p>Find an example of an object that forces are acting on. Describe the forces that are acting, including the size and directions of the forces.</p> <p>Kerboodle P8.2</p>	<p>April 3, 2020</p>