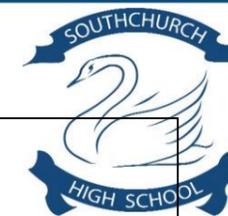




Science – Homework Term 1

Teacher: SBU

week	Homework		Description	
	Year 7	Year 8	Year 9	Year 10
Week 1 Due: 11/09/19	As described in the interactive lesson Make a list of variables that can be investigated in everyday life. For each one the students should identify independent, dependent and control variables. Kerboodle EP1.2	As described in the interactive lesson Make a list of variables that can be investigated in everyday life. For each one the students should identify independent, dependent and control variables. Kerboodle EP1.2	For homework, research and then describe an important development in static electricity. Kerboodle P4.2	Produce a poster to explain the differences between antiseptics, antigens, antibiotics, and antibodies. Kerboodle B6.1
Week 2 Due: 18/09/19	Write a plan, including a risk assessment, for a simple activity that they might do in everyday life Support: use the example of walking a dog to give examples. Kerboodle EP1.5	Write a plan, including a risk assessment, for a simple activity that they might do in everyday life Support: use the example of walking a dog to give examples. Kerboodle EP1.5	For homework, research the developments in batteries, including the materials used to construct them and the hazards associated with these materials. Kerboodle P4.4	Research other cancer treatments, for example, chemotherapy and radiotherapy. Compare these treatments to using monoclonal antibodies. Kerboodle B6.4
Week 3 Due: 25/09/19	Produce a safety leaflet to describe conditions where drivers should reduce their speed. Explain the physics behind why they should slow down in these situations. Remember to include the speed equation in your explanation. Kerboodle 1.1.3	Research hip-replacement surgery. Then produce a fact-sheet to be given to patients who are considering having hip-replacement surgery. You will need to access the student shared; Science; KS3; WebQuest 2 for your homework. Kerboodle 8.1.3	For homework, explain why thicker wires are used in applications where high currents are needed. Kerboodle P4.6	Do you agree with this statement? <i>"e-cigarettes are less harmful than normal cigarettes"</i> Research e-cigarettes and write down at least one argument for and one argument against this statement. Kerboodle B7.3
Week 4 Due: 02/10/19	Produce a presentation about the International Space Station. You will need access to the WebQuest for your homework saved on student shared; Science folder; KS3 folder; Webquest or Kerboodle 1.2.1	Write an account to explain how the muscles in the leg are used as an antagonistic pair during the kicking of a ball. Kerboodle 8.2.2	For homework, complete additional calculations using the equations covered in this lesson. Kerboodle P5.3	Research why there is a concern that people living near Fukushima in Japan are at an increased risk of developing cancer. Support your conclusion with evidence. Kerboodle B7.5



<p>Week 5 Due: 09/10/19</p>	<p>Research hip-replacement surgery. Then produce a fact-sheet to be given to patients who are considering having hip-replacement surgery. You will need to access the student shared; Science; KS3; WebQuest 2 for your homework. Kerboodle 8.1.3</p>	<p>Draw a summary table for the different components of both an animal and a plant cell. Include their functions in the table. Kerboodle 8.2.5</p>	<p>For homework, produce a summary or visual map of the information about current electricity, mains electricity, and electrical energy calculations. Kerboodle P5.5</p>	<p>Biology Paper 1 Topic Recap Cell biology Animal tissues, organs and organ systems Plant tissues, organs and organ systems Infection & response bioenergetics</p>
<p>Week 6 Due: 16/10/19</p>	<p>Draw a summary table for the different components of both an animal and a plant cell. Include their functions in the table. Kerboodle 8.2.2</p>	<p>Identify five examples of uses of moments in your home, for example, scissors. Explain how the turning effects are balanced by comparing the distance and force either side of a pivot. Research one example in detail to explain exactly how moments work in this object. Kerboodle 1.3.3 checkpoint</p>	<p>For homework, research the evidence for the particle model, including Brownian motion. Kerboodle P6.3</p>	<p>Chemistry Paper 1 Topic Recap Atomic structure and the periodic table Bonding, structure and the properties of matter</p>
<p>Week 7 Due: 23/10/19</p>	<p>Write a short paragraph to compare the similarities and differences between unicellular organisms and the average plant and animal cells that you have learnt about in previous lessons. Kerboodle 8.2.5</p>	<p>Do some research to write a short report about how cars have developed overtime. Use your understanding of forces to explain why each development has been made. Kerboodle 1.4.3</p>	<p>The gas laws were important discoveries – find out who discovered them and how these were achieved. Also, describe the properties of an ‘ideal gas’ in terms of the particles within it. Kerboodle P6.7</p>	<p>Calcium carbonate undergoes thermal decomposition to produce calcium oxide and carbon dioxide.</p> <p>Write a balanced symbol equation for this reaction.</p> <p>Complete reacting mass calculations for 100 g of calcium carbonate. What mass of calcium oxide and carbon dioxide gas would be made? Kerboodle C4.3</p>
<p>Week 8 Due: 04/11/19</p>	<p>Write a leaflet explaining to the public why we grit roads in icy conditions. You will need to access the WebQuest for your homework. Kerboodle 5.1.3</p>	<p>Produce a presentation to dissuade teenagers from taking illegal recreational drugs. To do so, research different types of recreational drugs, including their effect on the human body and what the withdrawal symptoms are. You will need to access the WebQuest for your homework activity. Kerboodle 8.3.3</p>	<p>Ionising radiation can be detected by cloud and bubble chambers, spark detectors, and photographic films.</p> <p>For homework, find out about these devices and why they are used. Kerboodle P7.4</p>	<p>Indigestion tablets contain calcium carbonate, which reacts with the hydrochloric acid in the stomach.</p> <p>Which reagent is the limiting reagent? Kerboodle C4.6</p>