

YEAR 9

Independent learning to be completed during school closure

Science 6th - 16th July

Over the course of a fortnight you would have 5 Science lessons. Please spend a minimum of 5 hours on the mini-project detailed below.

Chemical Reactions

Watch this video: https://www.youtube.com/watch?v=v7IYHb_dQLo

Task	Description
1	Define chemical reaction and physical change and give examples of each.
2	Explain why a) Baking a cake is a <u>chemical reaction</u> b) Melting ice is a <u>physical change</u>
3	Create a table showing the differences between chemical changes and physical changes. Think of a practical example of each. You must write a detailed method for each example.
4	Define the following keywords (in terms of chemistry): reactant, product, word equation, symbol equation
5	Research the chemical symbols for the following: copper, zinc, iron, magnesium, sulfuric acid, water, copper sulfate, zinc, sulfate, iron(II) sulfate, magnesium sulfate
6	a) Write word equations for when each of the following <u>react with sulfuric acid</u> I. Copper II. Zinc III. Iron IV. Magnesium b) Then write out all the word equations using symbols
7	For each of the equations identify the reactants and products of each reaction.

If you require further information please email:

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