

## YEAR 8

### Independent learning to be completed during school closure

#### Science 22nd June - 3rd 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.

#### Separating Mixtures

Watch this video: <https://www.youtube.com/watch?v=XC1RxloV0Mo>

Task	Description
1	Create a decorative cover sheet for your project using pictures and as many keywords from the topic as possible.
2	Write a definition for an insoluble substance and soluble substance, and give two examples of each.
3	Draw or print off a diagram of a separating mixture of rock and water and label each part of the apparatus. After that, write a paragraph explaining filtration.
4	Draw or print off a diagram of a separating mixture of salt and water and label each part of the apparatus. After that, write a paragraph explaining evaporation.
5	Produce a leaflet detailing the process of dissolving salt in water using a diagram to show the particles of salt and water, and label the diagram.
6	Write a story to show how to use distillation to separate a mixture of ink and water. Include a diagram for the distillation and label it.
7	Write the method for separating dyes using chromatography. Research the uses of chromatography.
8	*High level <b>EXTENSION</b> task: Draw a poster that explains what happens to the sugar that is put in a cup of tea. Make sure you use the keywords correctly. Try to describe and explain melting using particle theory.