

Science Home School work week beginning 13th July

For the last Science lesson of the term you will be getting your hands dirty! You are going to be learning about soil.

Watch this clip about different types of soil

<https://www.bbc.co.uk/bitesize/clips/z7rb4wx>

Soil is made up of a mixture of Sand, Silt, Clay and rotted plant (Organic) material. Different soil types have differing percentages of each.

Do the following activity with 2 different soil samples taken from different areas so you can compare them.

Jam jar activity

Take a clean, straight-sided jam jar and fill it about a third of the way up with the soil you are experimenting with.

Pour clean water into the jar until it is almost full.

Put the lid on the jar and shake it really thoroughly or use a stick or spoon to mix up the water and soil.

Now leave the jar for 2 hours until everything has settled down.

You should be able to see separate layers in the jar.

Sand particles are the biggest and weigh more than silt so they will sink to the bottom. Any pebbles will also be in the bottom layer.

Next is the silt layer. Silt particles are smaller than sand and weigh less so they settle in a layer on top of the sand.

Clay particles they are the smallest and will be on the top.

Next you will have the water. This may look a bit cloudy from material that has dissolved in the water.

Finally, at the top will be floating organic material which isn't fully rotted.

Draw and label the different layers of soil on the jam jar sheet. Remember to say where your 2 soil samples came from.

Write a paragraph comparing the 2 samples. It might be helpful to measure the depth of each layer in your jars.