Year 5 – The Science of States – 2 half terms MATERIALS SCIENCE SPRING 1

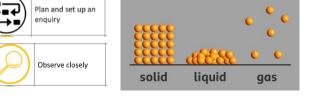
Prior Learning: Children should be able to identify solids, liquids or gases and should know that some materials change state when they are heated or cooled

Concept: Materials

In this unit we will discover all about the properties of various

materials.

Working scientifically:



4. TWAL to investigate how materials can be separated

In this lesson we are going to investigate how to separate a solid which has been dissolved in a liquid. We will make a prediction and then we will carry out our experiment on over the next week.



1.TWAL to separate materials

In this lesson we will be using various different methods of separating different materials. We will use a sieve and colander to do this. We will do an experiment to separate plastic, rice and flour - what will we need?

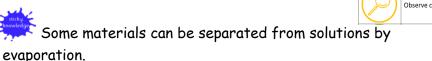


Materials can be separated in different ways



5. TWAL to investigate how materials can be separated

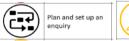
In this lesson we will observe the results of our experiment from last week and write up the results from it. Were our predictions correct?



2. TWAL to separate materials

Today we will learn how to separate different metals- using magnetism! Use your learning from last week- set up an experiment to test the different metals you have for magnetism. Video: https://www.bbc.co.uk/bitesize/clips/zcntsbk







That separation using magnets is used every day life

6. TWAL about changes to materials that are reversible and irreversible

In this lesson we are learning about what makes a change to a material reversible or irreversible. We will look at some everyday reversible and irreversible reactions and then use our knowledge to sort them correctly.



Some reactions cannot be reversed.

3. TWAL to understand how solids can change

In this lesson we will learn the scientific vocabulary about changing solids, Then we will carry out a fair test to test the solubility of some everydeness. Fair test video:

https://www.bbc.co.uk/bitesize/topics/z2ddmp3/articles/zpctrwx

Words we will know!









solute

