

# Spring 2 Science Core Knowledge

## Geology, Mixtures & Separation

A **solute** is the thing that gets **dissolved**. A **solvent** is the thing that does the dissolving.

Earth and everything on/in it is essentially a mix of **solids, liquids and gases**.

A '**mixture**' describes the combination of different components in a substance.

Clouds are a mixture of gases (air and water).

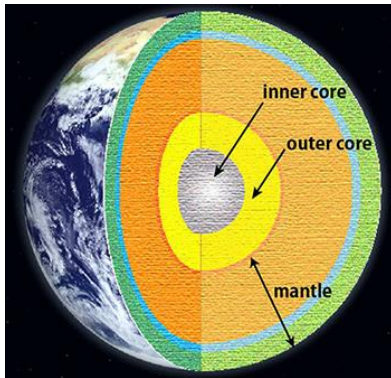
Some **materials** will **dissolve in liquid to form a solution**.

The type of solution is determined by whether the solvent is solid, liquid or gas.

There are a variety of **separating techniques** and some mixtures are quite hard to separate.



**Everything will dissolve in water eventually.**



**Earth is made up of layers.**

There are 3 main classifications of rocks: **igneous, sedimentary and metamorphic**.

Rocks can be grouped based on their properties.

Fossils are formed in rocks and tell us about life in the past.

### Working scientifically

Make predictions

Select which data to record in a scientific way and begin to tabulate data.

Begin to use graphs to display data.

Spot patterns in data.

Describe how to recover a substance from a solution.

Identify a solvent and solute.

Decide how mixtures might be separated.

Recognise a reversible and an irreversible reaction.

Explore different soils.

Identify similarities and differences between what happens when rocks are rubbed together, and what changes occur when they are in water.