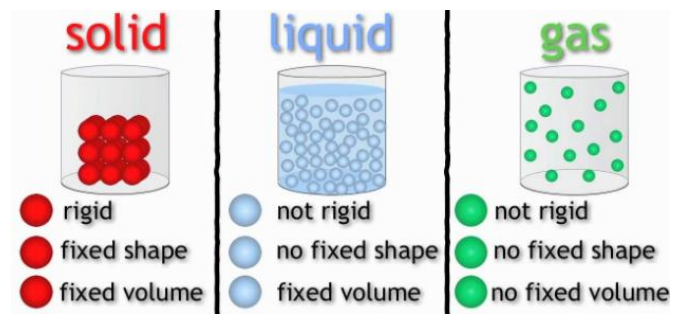


Geology, Mixtures & Separation

- The Earth and everything on/in it is a mix of solids, liquids and gases.
- 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 a solid, liquid or gas.
- A 'mixture' describes the combination of different components in a substance.
- There are a variety of separating techniques and some mixtures are quite hard to separate.
- Everything will **dissolve** in water eventually.



Person of interest - James Hutton (founder of modern geology)

- In 1785 James Hutton presented his idea of a rock cycle to the Royal Society. He detailed ideas of **erosion** and **sedimentation** taking place over long periods of time, making massive changes to the Earth's surface.
- Hutton's work established geology as a proper science, and he is often referred to as the "Father of Modern Geology."



Key Words:

Solute - the thing that gets dissolved

Dissolving - the solute breaks up from a larger crystal of molecules into much smaller groups or individual molecules.

Solvent - the thing that does the dissolving.

Erosion - the process of eroding or being eroded by wind, water, or other natural agents.

Sedimentation - the process of settling or being deposited as a sediment.