



Year 5 Science - Summer Term 2: Properties & Changes of Materials



1. A **mixture** is a combination of two or more **substances** that aren't chemically joined and can be **separated** back into their individual substances. **Heterogeneous** mixtures consist of distinctly different substances and are easy to separate. Substances in homogeneous mixtures are evenly distributed and you cannot see the different parts. **Homogeneous** mixtures are difficult to **separate**.



2. **Sieving** can be used to separate **large solids** from **liquids** and some **solids** from other **solids**.



What are mixtures and how can they be separated?



3. **Filters** separate **solid** particles from **liquids** or gases. **Filters** can be made from thin materials that contain tiny holes or layers of **solid** materials.

4. **Evaporating** can be used to separate dissolved **solids** from **liquids**.



5. **Reversible** changes include heating, cooling, melting, dissolving and evaporating.



rusting



burning



decaying

6. **Irreversible** changes include burning, rusting, decaying and chemical reactions.

Irreversible changes are usually accompanied by one or more of these signs: a gas is produced; light is produced; a smell is produced or the smell changes; the colour changes; sound is produced, or the temperature changes.

mixture	heterogenous	homogenous	separate	substance	liquids
reversible	irreversible	filtering	sieving	evaporating	solids