

Properties and Changes of Materials

Recap:

- Solids stay in one place and can be held.
- Liquids can flow or be poured easily
- Gases are often invisible.
- Conductors allow electricity to pass through
- Insulators do not allow electricity to pass through

Crucial Knowledge:

- When the particles of a solid mix with the particles of a liquid, this is called dissolving.
- Some materials can be separated after they have been mixed based on their properties - this is called a reversible change.

Extended Knowledge:

- Materials which are good thermal conductors allow heat to move through them easily.
- Thermal conductors are used to make items that require heat to travel through them easily, such as a saucepan which requires heat to travel through to cook food.
- Thermal insulators do not let heat travel through them easily.
- Electrical conductors allow electricity to pass through them easily while electrical insulators do not.
- Electrical insulators have a high resistance which means that it is hard for electricity to pass through these objects.

