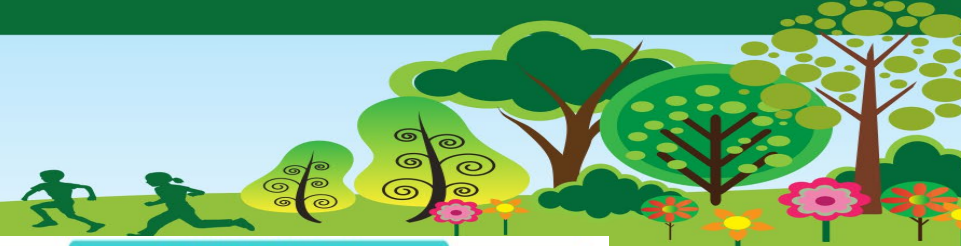


Properties of materials









STICKY KNOWLEDGE

<p>Conductive materials allow heat/ electricity to pass through them</p> <p>Magnetic materials are attracted to a magnet</p> <p>Transparent materials allow light to pass through them so they can be seen clearly</p>	<p>Thermal conductors allow heat to pass through them quickly.</p> <p>Thermal insulators do not allow heat to pass through them quickly.</p>	<p>Hardness is resistant to scratching and pressure</p>
<p>Materials which dissolve in liquids are soluble.</p> <p>Materials which do not dissolve in liquids are insoluble.</p>	<p>Mixtures can be separated by filtering, sieving, evaporating or magnets.</p>	

KEY VOCABULARY

thermal	Using or producing heat
conduction	Heat moving from one object to another through contact
solute	A subject that can be dissolved in liquid
solvent	A substance that can dissolve a solute
saturation	Unable to dissolve or absorb any further

Properties of Materials

conducts energy	
insulates energy	
transparent	
waterproof	
durable (strong)	
magnetic	

Everyday Materials

Metal saucepans **conduct** heat to warm food.



Wooden spoons and plastic handles **insulate** heat so hands do not get burned.

Soluble Materials

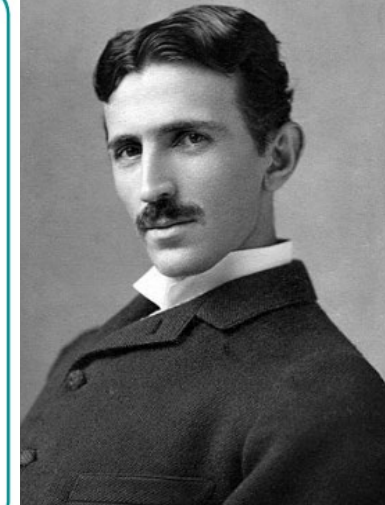
Some solids **dissolve** in water (**SOLUBLE**).

coffee sugar salt jelly



Some solids do not **dissolve** in water (**INSOLUBLE**).

pepper sand wax



Nikola Tesla

Inventor of the modern alternating current (AC) electricity supply system.

Separating Materials

Sieving



Filtering



Magnetism



Magnetic metals:

- iron
- nickel
- steel