

Properties of materials




STICKY KNOWLEDGE

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

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

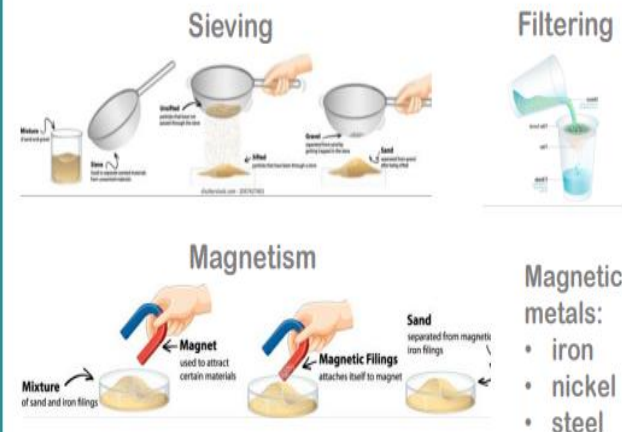
Some solids **dissolve** in water (**SOLUBLE**).



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



Separating Materials



Nikola Tesla

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

