

Key Vocabulary

WORD

Conduction

Conductive

Dissolve

heat moving from one object to another through contact

electricity to pass through it
to mix with a liquid and become part of the
liquid
the process where a liquid changes into a

a material that allows heat and/or

Evaporation the process where a liquid changes into a gas

Filtering the separation of a mixture using a tool with

small holes to separate particles

Force when an object is acted upon by a pull or push motion in a specific direction

Hardness — resistance to scratching and pressure

Magnetic material that is attracted to a magnet

Solute a substance that can be dissolved in a liquid

Solvent a substance that can dissolve in a solute,

water is a solvent

Substance any material, such as sugar

Thermal using or producing heat

Key Knowledge

Different materials are used for particular jobs based on their properties: electrical conductivity, flexibility, hardness, insulators, magnetism, solubility, thermal conductivity, transparency.

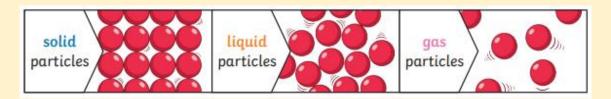
Properties of Materials				
conducts energy	•			
insulates energy	Ē			
transparent	Garac Milital			
waterproof				
durable (strong)	0			
magnetic	C			

Sieving - Smaller materials are able to fall through the holes in the sieve, separating them from larger particles.

Filtering - The solid particles will get caught in the filter paper but the liquid will be able to get through.

Dissolving - A solution is made when solid particles are mixed with liquid particles. Materials that will dissolve are known as soluble. Materials that won't dissolve are known as insoluble. A suspension is when the particles don't dissolve.

Irreversible changes often result in a new product being made from the old materials (reactants). For example, burning wood produces ash. Mixing vinegar and milk produces casein plastic.



Soluble Materials

Some solids dissolve in water (SOLUBLE).

coffee su







Some solids do not dissolve in water (INSOLUBLE).

pepper sand wax







Everyday Materials

Metal saucepans conduct heat to warm food.



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

