

What have I previously learned?
 Compared and group materials together, according to whether they are solids, liquids or gases.
 Observe that some materials change state when they are heated or cooled, and measure or research the temperature at which this happens in degrees Celsius ©
 Identify the part played by evaporation and condensation in the water cycle and associate the rate of evaporation with temperature.

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Sticky Knowledge

- Irreversible changes, like burning, cannot be undone. Reversible changes, like melting, freezing and dissolving, can be changed back again.
- Mixtures can be separated out by methods like filtering and evaporating. A change is called irreversible if it cannot be changed back again.
- A cooked egg cannot be changed back to a raw egg again. Mixing substances can cause an irreversible change. For example, when vinegar and bicarbonate of soda are mixed, the mixture changes and lots of bubbles of carbon dioxide are made. Burning is an example of an irreversible change.
- All materials have different properties. These properties make different materials suitable or unsuitable for different uses.

Vocabulary - Goldilocks words

Word	Definition
Changing state	Changing state is the term used to describe the process of one state of matter (solid, liquid or gas) changing to another.
Mixture	a substance made by mixing other substances together.
dissolve	(with reference to a solid) become or cause to become incorporated into a liquid so as to form a solution.
solution	a liquid mixture in which the minor component (the <u>solute</u>) is <u>uniformly</u> distributed within the major component (the <u>solvent</u>).
Soluble/insoluble	Soluble solids are substances that dissolve in a given liquid; it forms a solution. Insoluble solids are those solids that do not dissolve in water.
Reversible/non-reversible	A change which can happen backward, that is, can be reversed is called a reversible change. A change that cannot happen backward, that is, it cannot be reversed is called an irreversible change.

Prompts to help me in my learning

These words will help you:

rubber	metal	wood	plastic	glass	cotton	leather
Chair	Sharpeners	Pencil	Glasses			
Balloons	Door handle	Keys	Saucepan			
Book	Barbecue	Coat	Shoes			

rigid lexible impermeable durable smooth warm insulator
 grip soft hard transparent opaque light tough

Glass for windows	Rubber for soles	Wool for a jumper	Plastic for a socket
Leather for boxing gloves	Cotton for a towel	Rubber for a hot water bottle	Wood for a chair

Material	Change
1) Orange juice 	
2) Butter 	
3) Chocolate 	
4) Water 	
5) Ice 	

Useful links

https://www.youtube.com/watch?v=340MmuY_osY