Year 5 Properties and Changes of Materials

Match the state of matter to the picture	Fill in the gaps by writing the name of the	Explain why the properties of these
that shows how the particles behave.	state of matter next to the correct description.	materials make them suitable for their uses.
solid	are materials that take the shape of their container. They can flow or be poured.	A glass window:
liquid	are materials that keep their shape unless force is applied to them. They can be hard, soft or squishy.	A copper saucepan:
gas	are materials that do not have a fixed shape but do have a fixed mass.	
Write the meaning of these properties of materials.	Complete the sentences with the name of the change of state being described. When a solid is heated and it changes into a liquid, it is said to be	Give an example of when a material wouldn't be suitable for certain uses due to its properties.
permeable	When a liquid cools and changes into a solid, it is said to be	
absorbent	When a liquid changes into a gas or vapour, it is said to be	
	When a gas cools and changes into a liquid, it is said to be	



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Draw a line from each word to its meaning.		When finding out which materials dissolve in a liquid, what two	
conductor	a mixture containing the particles of another substance that won't dissolve	things could you do to make a material dissolve faster?	
insulator	a material that allows heat or electricity to easily travel through it	2	
solution suspension	a material that does not allow heat or electricity to travel through it		
	a liquid containing the particles of another substance dissolved in it	Some materials can change state when they are heated or cooled. Draw a line from the change of state to either the word 'heat' or the word 'cooling'.	
Which methods of separation would be best to use when separating the following things:		solid to liquid	
a) large particles from smo	all particles	heat	
b) solid particles from liquid		cooling	



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Year 5 Properties and Changes of Materials **Answers**

Match the state of matter to the picture that shows how the particles behave.	Fill in the gaps by writing the name of the state of matter next to the correct description.	Explain why the properties of these materials make them suitable for their uses.
solid	Liquids are materials that take the shape of their container. They can flow or be poured.Solids are materials that keep their shape unless force is applied to them. They can be	A glass window: Glass is transparent so it lets light pass through. It is hard so it keeps wind and cold air out. It can be cut into different shapes.
liquid gas	hard, soft or squishy. Gases are materials that do not have a fixed shape but do have a fixed mass.	A copper saucepan: Copper conducts heat so it allows food to cook. It can be shaped into a saucepan shape but it is also hard so it will keep this shape.
Write the meaning of these properties of	Complete the sentences with the name of the change of state being described.	Give an example of when a material
materials. permeable – A material that allows	When a solid is heated and it changes into a liquid, it is said to be melting .	wouldn't be suitable for certain uses due to its properties.
liquids or gases to pass through it.	When a liquid cools and changes into a solid,	Any answers that show an unsuitable
absorbent – A material that soaks up	it is said to be freezing .	material for a use. Examples include a paper umbrella, a metal oven glove, a
liquid easily.	When a liquid changes into a gas or vapour, it is said to be evaporating .	plastic saucepan, etc.
	When a gas cools and changes into a liquid, it is said to be condensing .	





Year 5 Properties and Changes of Materials **Answers**





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