Year 4 States of Matter

Match the state of matter to the diagram that shows how their particles behave.	Next to each object, write whether it is a liquid, solid or gas.	Write true or false next to each statement. Some materials can change from one state
solid	plastic ruler milk	to another and back again A solid takes the shape of the container it is in
liquid	air in a hot air balloon bubbles in a fizzy drink	Solids are always hard Liquids can be poured Gases have a fixed shape
gas	water	
Some materials can change state when heated or cooled. Draw a line from the change of state to either the word 'heat' or the word 'cooling'.	Fill in the missing words in the sentences: When liquids reach a certain, they change state into a or a The temperatures that these changes happen at are called the boiling, or freezing	Fill in the missing words to complete the sentences. The process of a liquid changing state into a gas is called The process of a gas changing state into a liquid is called
liquid to gas cooling		The fall of liquid or solid particles as rain, sleet, hail or snow from a cloud is called





Year 4 States of Matter

 Fill in the missing letters to complete the words. When water evaporates, it turns into a gas called w_t_r v_p_u This process can happen quickly or slowly depending on the t_m_e_a_u_e. 	Give an example of when you might see evaporation.	Write true or false next to these sentences: The boiling point of water is 100°C. The freezing point of water is -5°C. The melting point of water is the same as its freezing point.
Give an example of a material that can change state and then change back to its original state.	Add the labels to this diagram of the water precipitation condensation evaporation	cycle:





Year 4 States of Matter - Answers

Match the state of matter to the diagram that shows how their particles behave.	Next to each object, write whether it is a liquid, solid or gas.	Write true or false next to each statement. Some materials can change from one state
solid	plastic ruler solid	to another and back again. true A solid takes the shape of the container it
	milk liquid	is in. false Solids are always hard. false
liquid	air in a hot air balloon gas bubbles in a fizzy drink gas	Liquids can be poured. true
gas	metal scissors solid	Gases have a fixed shape. false
	water liquid	
Some materials can change state when heated or cooled. Draw a line from the	Fill in the missing words in the sentences:	Fill in the missing words to complete the sentences.
change of state to either the word 'heat' or the word 'cooling'.	When liquids reach a certain temperature , they change state into a solid or a gas . The temperatures that these changes	The process of a liquid changing state into a gas is called evaporation .
solid to liquid heat	happen at are called the boiling, melting or freezing point .	The process of a gas changing state into a liquid is called condensation .
liquid to gas cooling		The fall of liquid or solid particles as rain, sleet, hail or snow from a cloud is called precipitation .





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Year 4 States of Matter - Answers

 Fill in the missing letters to complete the words. When water evaporates, it turns into a gas called water vapour. This process can happen quickly or slowly depending on the temperature. 	Give an example of when you might see evaporation. Example answers could include: • steam coming off clothes; • steam coming from a kettle; • puddles drying.	Write true or false next to these sentences: The boiling point of water is 100°C. true The freezing point of water is -5°C. false The melting point of water is the same as its freezing point. true
 Give an example of a material that can change state and then change back to its original state. Example answers could include: water turning to ice and then back again; chocolate melting and then solidifying again; water vapour condensing and turning back into water. 	Add the labels to this diagram of the water of precipitation condensation evaporation	

