Science - What's the Matter?

Key Vocabulary

Matter	The scientific name for everything physical around us	and	Particles are arranged differently in solids, liquids and gases. This means that the three states of	
Solid	The 3 States of Matter - all matter		matter all have different properties and behave in	
Liquid	exists in one of these forms, but they can change from one to another	different ways. Why do you think the way the particles are		
Gas			inged gives them each such uniqu	
Particles	The tiny parts that materials are made from. They can only be seen under a		Properties of the state	How the particles are arranged
	very powerful microscope.		- Particles vibrate but can't	
Vibration	Means quickly moving back and forth (or up and down)	1170	move around - If left alone, it stays the same shape	
Melt	To change from a solid to a liquid	N N	- Fixed volume	00000
Evaporate	To change from a liquid to a gas		Dentialed any many most	
Condense	To change from a gas to a liquid	<u>A</u>	- Particles can move past each other	00000
Freeze	To change from a liquid to a solid	90	- Changes shape to fit its	- 0000
Volume	How much space an object takes up	1	ゴ container - Volume doesn't change	00800
Examples of each steel spoon	n state of matter: water helium	GAS	- Particles are free to move anywhere - Volume and shape can change - Spreads out to fill the	
Can you name any other examples? Which is the easiest state to find examples of?			space it's in	0 0

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The water cycle begins with a big body of water, such as the sea. As the sun shines on it, the top layer of water particles get heated up and turn to water vapour, a gas. The water vapour rises up into the sky where it cools down and turns back to tiny water droplets. These tiny droplets join together and form a cloud, until they are too heavy and fall down to Earth as rain, hail or snow. This water runs along roads, through streams or down into the ground and flows, slowly, back to the sea where the whole process begins again.

Have you ever seen a puddle after the rain? What happens when the sun comes out? How long does it take for all of the water to evaporate? Try timing it next time it rains!

It's called a 'cycle' because it goes round and round continuously without ending.

This means that all of the water in the world keeps going round without going away... so the water in the world now is the same water that was here 150 million years ago! So you could be drinking the same

water that a brachiosaurus drank!

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s r	Precipitation				
s y e					
n evaporation transportation					
and the second second					
Key Vocabulary					
Water Cycle	A continuous process where water moves from the sea, to the sky, to the land and back to the sea.				
Precipitation	The scientific name for water falling from the sky - this could be as rain, hail, sleet or snow.				
Evaporation					
Condensation					
Precipitation	The 4 stages in the Water Cycle				
Transportation (Collection)					