1	Castlefield School - Science					
Castlefield School	Topic: Water Cycle	Year: Four	Theme: Properties and Changes of Materials		nanges of Materials	Strand: Chemistry
Key Concepts				Key Vocabulary		
What is the Water Cycle?			Atmosphere	the layer of air or other gases around a planet		
The process by which water on the earth evaporates, then condenses in the atmosphere, and then returns to earth in the form of precipitation.			Condensation	Small drops of water which form when water vapour or steam touches a cold surface such as a window.		
 <u>Step 1: Evaporation:</u> The Sun causes the water from the Earth to evaporate. This water evaporates from seas, lakes, streams and even puddles. 			Evaporation	To turn from liquid to gas; pass away in the form of vapour		
 This water evaporates from seas, takes, streams and even publies. When it evaporates, water turns into water vapour. Step 2: Condensation: As the water vapour rises, it cools down. As it cools down, condensation happens and water vapour condenses to small droplets of water. 				Ground water	water that is found under the ground. Groundwater has usually passed down through the soil and become trapped by rocks.	
				Precipitation	rain, snow, sleet, dew, etc, formed by condensation of water vapour in the atmosphere	
Clouds are made from a mix of dry air and small droplets of water			Runoff	rain in excess of the amount absorbed by the ground		
 <u>Step 3: Precipitation:</u> As condensation continues to happen, more droplets of water vapour are formed. When the droplets become heavy and large enough, they fall back to the Earth's surface in the form of rain or snow. 			Transpiration	evaporation of water from a plant's leaves, stem, or flowers		
			Water cycle	the process by which water on the earth evaporates, then condenses in the atmosphere, and then returns to earth in the form of precipitation.		
	Transport	Step 4 & 5 Runoff and Transp		Water vapor	water in the gaseous state, when due to evaporation at a temperature below the boiling point	
Condo	As precipitation happens in the form of			Working Scientifically Skills		
Transpiration	Predipitation Predipitation Snowmelt Runoff vaporation Surface Runoff	 rain or snow for back to Earth, absorbed into t This water is u plants to grow water from pla leaves evaporat into the atmosp this is called 	water is he soil. sed by - when nt ces back	Explair drawin using r		Setting up fair tests (with help) Looking for patterns
1 0 1	 transpiration. Water may also run off and enter oceans, seas and rivers. Water then evaporates again and the water cycle begins again! 			Famous Scientists		
				Greg Foot (1983 -) is a science presenter on TV, online, on the radio and at live events. He's been recognized as one of the leading science communicators in the UK and named an engagement fellow for the Welcome Trust.		