Owls – Year 4/5 Spring 1 (B)

## <u>Science</u>

## How would we survive without water?

<u>What I should already know:</u> I can distinguish between an object and the material from which it is made. I know how to compare and group different materials on the basis of their properties. I know some ways that solid objects can be changed (e.g. by squashing, twisting and stretching). I understand, and can explain, the stages and processes involved in the water cycle.

Matter - Anything which takes up space and has a mass.scientific enquiries to answer questions, includingMelting - The process of a solid changing state to a liquidscientific enquiries to answer questions, includingMelting point - The temperature at which a particular solid meltsUse straightforward scientific evidence to answerParticle - A tiny amount or small piecequestions or to support them. / Identify scientific evidenceReverse - The oppositethat has been used to support or refute ideas orSolid - State of matter which holds its form and shapestate change - The process of one state of matter (solid, liquid or gas)Changing to anotherMake systematic and careful observations and, where appropriate, take accurate measurements using standard	<ul> <li>Enquiry Questions</li> <li>What are the three states of matter and can we work out which state common objects are in?</li> <li>How do the particles behave in solids, liquids and gases?</li> <li>Do all solids have the same melting point?</li> <li>Do all liquids have the same freezing and boiling points?</li> <li>What causes and affects evaporation and condensation?</li> </ul>	Melting – The process of a solid changing state to a liquid Melting point – The temperature at which a particular solid melts Particle – A tiny amount or small piece Reverse – The opposite Solid – State of matter which holds its form and shape State change – The process of one state of matter (solid, liquid or gas) changing to another Sublimation – The process of a solid changing state straight to a gas. Temperature – How hot or cold something is Thermometer – A device used to measure temperature Volume – The amount of space something takes up Water cycle – The movement of water around the Earth in a continuous cycle	<ul> <li>recognising and controlling variables where necessary.</li> <li>Use straightforward scientific evidence to answer questions or to support them. / Identify scientific evidence that has been used to support or refute ideas or arguments.</li> <li>Make systematic and careful observations and, where appropriate, take accurate measurements using standard units, using a range of equipment. / Take measurements using a range of scientific equipment with increasing accuracy and precision, taking repeat readings where necessary.</li> <li>Identify differences, similarities or changes related to</li> </ul>
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