Preston Primary School Knowledge Organiser Communication Critical-Thinking Collaboration Creativity Collaboration Creativity						
opic: Science – Everyday		Term: Autumn 2	Year: 1	& 2	Duration: 6 lessons	
The Powerful Know (what we will be lea	rledge we will take arning):	away from this Learning Enquiry	Our Key Vocab	ulary:		
29	Observe, ide	ntify and classify – What are	Material	What an object is made from e.g, wood, plastic, glass, metal, water, rock		
	Observation – What are the properties of the different materials?		Properties of materials	Hard/soft, shiny/dull, rough/smooth, heavy/light, transparent/opaque.		
ζΔ	Identifying and classifying –Use simple equipment to observe closely and identify the properties of the different materials.		Transparent Opaque	A material that can be seen through. A material that cannot be seen through.		
			Melt	When a solid turns to liquid- when ice melts and turns to water		
	Plan/Simple predictions -	t – Ask questions and make hich materials will float,	Freeze	When a liquid turns into a solid- when water freezes it turns to ice.		
2 3	which will si	nk?	Texture	The feel of a material. Smooth means that it doesn't have lumps so things easy to slide. Rough means having an unever surface. Sharp means that it has edges that can cut. Abrasive means that it will wear away other surfaces if rubbed against them.		
29	Simple test -	What happens to water when nd cooled?				
Problem-so is best to fro		ve/simple test – Which method	Hard	Not easily broken or bent. Soft material can easily change shape or is gentle to touch.		
([quickest?		Float	When an object stays on top of the water.		
	Simple test – Which materials are opaque and which are transparent?		Sink	When an object falls to the bottom of the water.		

Key Scientists

• John Boyd Dunlop (1840 – 1921) -



http://primaryfacts.com/8429/john-boyddunlop-facts-and-information/

• Charles Macintosh (176 – 1843) –



http://www.rampantscotland.com/inventor s/inventions_waterproof.htm

• John McAdam (1756 - 1836) -



http://inventors.about.com/library/invento rs/blJohnMcAdam.htm

What I already know:

In Puffins and Penguins, I learned about some important processes and changes in the natural world around me, including the seasons and changing states of matter.

Images:



Further Information

Solids, liquids, and gases

All materials can exist in all states, dependent on temperature and pressure.

Solids – These have a definite shape and keep it.

Liquids - Not all liquids are the same. They look and feel different. All liquids will pour. Thicker liquids pour more slowly. Liquids take the shape of their container.

STATE OF MATTER



Dry sand will pour like a liquid and take the shape of its container. In a flat tray, dry sand will pile up, but water will spread to fill the tray. This is because sand is not a liquid. It is made up of lots of tiny solids.

Gases - Gases will fill the space that they are in. If it is in a larger area the pressure will be less than if it were in a small area.