Carr Head Primary School – Knowledge Organiser

Science	Materials and their Properties	Year 2	Autumn Term 1

Key Knowledge

Materials

What does material mean?	All objects have a name like 'a door'. Material is the 'stuff' an object is made from.
Everyday materials you need to know	Wood, plastic, glass, metal, water, rock

Names of some common properties of materials

Hard	Not easily broken
Soft	Easy to cut, fold or change shape
Stretchy	Can be made longer or wider without breaking
Stiff	Doesn't change shape easily
Shiny	Reflects light easily
Dull	Not very bright or shiny
Rough	Has an uneven surface
Smooth	An even surface with no lumps or bumps
Bendy	Can be bent easily
Waterproof	Keeps out water
Absorbent	Soaks up liquid easily
Transparent	Easy to see through
Opaque	Not able to see through

Some common materials and their properties

Wood	Hard, strong, stiff
Plastic	Strong, shiny, bendy
Glass	Transparent, smooth, stiff
Metal	Hard, strong, shiny
Water	Runny, wet, clear
Rock	Hard, strong

Comparing and Grouping Materials

You can put materials into different groups by answering these questions about the material.	ᐧ Hard or Soft? ᐧ Stretchy or Stiff? ᐧ Shiny or Dull? ᐧ Rough or Smooth? ᐧ Bendy or Not Bendy? ᐧ Waterproof or Not waterproof? ᐧ Absorbent or Not Absorbent? ᐧ Transparent or Opaque?

Key Vocabulary

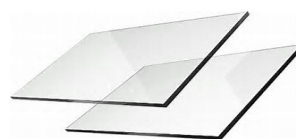|	
Properties	A way to describe something
Material	The 'stuff' an object is made out of.
Liquid	Liquids can **flow** or be **poured** easily.
Surface	An outside part or layer of something.
Object	A thing that can be seen and touched.

Wood	Plastic
Glass	Metal
Water	Rock

Know how to…

Working Scientifically	Compare the uses of everyday materials in and around the school with materials found in other places (at home, the journey to school, on visits, and in stories, rhymes and songs).
	Make close observations and use appropriate language to describe what they see.
	Identify and classify the uses of different materials.
	Record your observations.
	Think about unusual and creative uses for everyday materials.