<u>Sup</u>	ject: Science Year: Y1 Everyday Materials
NC/	'PoS:
•	<ul> <li>distinguish between an object and the material from which it is made</li> </ul>
•	• identify and name a variety of everyday materials, including wood, plastic, glass,
	metal, water, and rock
•	<ul> <li>describe the simple physical properties of an variety of everyday materials</li> </ul>
•	• Compare and group together a variety of everyday materials on the basis of their
	simple physical properties.
<u>Prio</u>	<b>r Learning</b> (what pupils already know and can do)
Shov	w understanding of what an object is and what a material is.
Nam	e common materials e.g. paper, card, fabric, glass etc.
Fnd	Goals (what pupils MUST know and remember)
	know objects are things we can see or touch and can be made from one or more
	naterials
	know a material is the matter from which a thing is or can be made from
	know a natural material is any product that comes from plants, animals, or the ground
• k	know examples of natural materials are water, wood, rock, cotton, iron, oil, leather
• k	know manufactured materials are materials that have been produced by man
	know examples of manufactured materials are plastic, metal, glass, brick, paper,
	abric, foil
	·
	Know that everything is made up of materials
	Know materials can be grouped according to their properties
•	Know varied materials, have different properties
• 1	Name different properties: hard/soft; stretchy/stiff; shiny/dull; rough/smooth;
Ł	pendy/not bendy; waterproof/not waterproof; absorbent/not absorbent;
C	ppaque/transparent
<u>Key</u>	Vocabulary: object, material, plastic, metal, glass, brick, paper, fabric, foil, water,
woo	d, rock, cotton, iron, oil, leather, air, natural, manufactured, ice, silk, paint, sponge,
fur, t	feather, sand, wool, concrete, property, hard/soft; stretchy/stiff; shiny/dull;
roug	h/smooth; bendy/not bendy; waterproof/not waterproof; absorbent/not absorbent;
	que/transparent, flexible
Ses	sion 1: review prior learning: give the children different materials to sort
Chilc	dren learn to distinguish between object and material. Objects are things we can see
or to	buch and can be made from one or more materials and a material is the matter from
whic	h a thing is or can be made from
Sug	gested resources:
http	s://www.youtube.com/watch?v=7puHegpyGbY objects and materials
https	s://www.youtube.com/watch?v=8uM_RU3vzXU Objects are made of materials
_	
	abulary: object, material
	sion 2: Recap: what is the difference between an object and a material?
	ne at least six of each.
	dren learn to group objects through observation
	gested activities:
	up objects according to material – include balloon filled with air and one filled with
	er, use a variety of household objects and ones from school
	dren can record in their own way.

<u>Vocabulary</u>: plastic, metal, glass, brick, paper, fabric, foil, water, wood, rock, <mark>cotton, iron, oil, leather, air</mark>

## Session 3: How might we group materials?

Children learn a natural material is any product that comes from plants, animals, or the ground: examples are water, wood, rock, cotton, iron, oil, leather Manufactured materials are materials that have been produced by man: examples of manufactured materials are plastic, metal, glass, brick, paper, fabric, foil

#### Suggested resources:

https://www.youtube.com/watch?v=0yKoHAWVhuE Natural and manmade materials



<u>Vocabulary: natural, manufactured, ice, silk, paint, sponge, fur, feather, sand,</u> wool, concrete

Session 4: what is the difference between a manufactured and manmade material?

Give examples

Children learn that everything is made up of materials and materials can be grouped according to their properties

### Suggested resources:

https://www.youtube.com/watch?v=340MmuY\_osY Materials and their properties Children sort a variety of materials

<u>Vocabulary:</u> property, hard/soft; stretchy/stiff; shiny/dull; rough/smooth; bendy/not bendy; waterproof/not waterproof; absorbent/not absorbent; opaque/transparent, flexible

Session 5: Name properties of different materials

Children learn to name different properties: hard/soft; stretchy/stiff; shiny/dull; rough/smooth; bendy/not bendy; waterproof/not waterproof; absorbent/not absorbent; opaque/transparent

### Suggested activity:

Children complete a material walk around the school Give the children a property on card and they locate materials which have that property

Vocabulary: property, compare

Session 6: name a property – which materials have this property?

Children perform simple tests to explore questions about materials

### Suggested activities:

Provide the children with a variety of materials and get them to predict which one would be most suitable. Test their predictions. What is the best material for an umbrella? What is the best material for lining a dog basket? What is the best material for curtains? What is the best material for a bookshelf?

# Vocabulary: prediction, predict, simple test