Subject: Science Year: KS1 year 1 Everyday Materials NC/PoS:
 distinguish between an object and the material from which it is made
• identify and name a variety of everyday materials, including wood, plastic, glass,
metal, water, and rock
describe the simple physical properties of a variety of everyday materials
• compare and group together a variety of everyday materials on the basis of their
simple physical properties.
Prior Learning (what pupils already know and can do)
Know materials have different properties. Know there are natural materials and human
made. Can group collections of materials with similar and/ or different properties. Can
discuss differences between materials.
End Goals (what pupils MUST know and remember)
know objects are things we can see or touch and can be made from one or more
materials
 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
• know examples of natural materials are water, wood, rock, cotton, iron, oil, leather
• know manufactured materials are materials that have been produced by humans
 know examples of manufactured materials are plastic, metal, glass, brick, paper,
fabric, foil
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Know that everything is made up of materials
Know materials can be grouped according to their properties
Know varied materials, have different properties
Name different properties: hard/soft; stretchy/stiff; shiny/dull; rough/smooth;
bendy/not bendy; waterproof/not waterproof; absorbent/not absorbent;
opaque/transparent
Key Vocabulary: object, material, plastic, metal, glass, brick, paper, fabric, foil, water,
wood, rock, cotton, iron, oil, leather, air, natural, manufactured, ice, silk, paint, sponge,
fur, feather, sand, wool, concrete, property, hard/soft; stretchy/stiff; shiny/dull;
rough/smooth; bendy/not bendy; waterproof/not waterproof; absorbent/not absorbent;
opaque/transparent, flexible Session 1: review prior learning: give the children different materials to sort. These should
be real materials where possible.
Children learn to distinguish between object and material. Objects are things we can see
or touch and can be made from one or more materials and a material is the matter from
which a thing is or can be made from
Suggested resources:
https://www.youtube.com/watch?v=7puHegpyGbY objects and materials
https://www.youtube.com/watch?v=8uM_RU3vzXU Objects are made of materials
Vocabulary: object, material
Session 2: Recap: what is the difference between an object and a material?
Name at least six of each.
Children learn to group objects through observation
Suggested activities:
Group objects according to material – include use a variety of household objects and ones
from school real items rather than photographs is possible.
Children can record in their own way.

Vocabulary: plastic, metal, glass, brick, paper, fabric, foil, water, wood, rock, cotton, iron, oil, leather, air

Session 3: Recap: 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 humans: examples of manufactured materials are plastic, metal, glass, brick, paper, fabric, foil

Suggested resources:

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



Vocabulary: natural, manufactured, ice, silk, paint, sponge, fur, feather, sand, wool, concrete

Session 4: Recap: what is the difference between a manufactured and a human made 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 – real materials

Vocabulary: property, hard/soft; stretchy/stiff; shiny/dull; rough/smooth; bendy/not bendy; waterproof/not waterproof; absorbent/not absorbent; opaque/transparent, flexible Session 5: Recap: 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: Recap: name a property – which materials have this property? Etc. 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?

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What is the best material for a bookshelf? Vocabulary: prediction, predict, simple test Link to career scientist: https://pstt.org.uk/application/files/1116/2851/6355/Materials_scientist______ ___Pearl_Agyakwa.pdf