

KSI Lesson Plan Materials



Introduction

This lesson gives children the opportunity to use key comparative skills to group and classify materials.

Learning objectives.

- To understand that materials have various properties that make them suitable for different uses

National curriculum

- KSI science Grouping and classifying materials

Differentiation

Level 4 and 5 students will be able to suggest uses for materials according to their properties. Less able students may need examples.

Resources

A selection of materials will be required in addition to this document

Key Vocabulary

- Man made
- Natural
- Float
- Sink

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Activity

1. Discuss with the class, each material on sheet one. Ask the class to give examples of where you might use each material. You may also ask if they know where the materials are found.
2. Give out sheets one and two and ask the students to respond to the questions for each material with either a tick or cross or by writing yes and no.

Extension activity

Draw a picture of something made of their favourite material, and write a sentence about its properties.

Activity

1. Re-establish the terms “natural” and “man made”
2. Separate the items by putting them on two tables as you do so discuss the properties of each item with the class.

Each child will:

- Using sheet one, make a model of a river using the natural things (For example, leaves for the river, seeds or twigs for trees)
- Using sheet two, make a model of a canal using man made things.(For example, crisp packets for the canal. Lollipop stick locks.)

Materials Sheet 1



WOOD

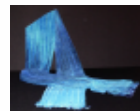
- Comes from trees
- Strong and flexible
- Used to make paper.



Here are some of the most common materials that we use today. Different properties make materials suitable for different uses.

FABRICS

- Made from fibres woven together.
- Some are natural e.g. silk and cotton
- Some are man made e.g. Nylon
- They are used to make clothes



PLASTICS

- Made from oil
- Can be coloured
- Strong, can be made into any shape



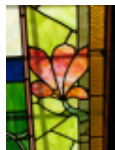
METAL

- Found in the ground, sometimes mixed with rocks
- Strong, hard shiny



GLASS

- Man made
- Can be made into different shapes.
- Hard and can shatter



ROCKS

- Found in the earth, on the beach
- Some are hard e.g. granite some are soft e.g. Chalk



POTTERY

- Made from clay which is shaped then heated to make it hard.
- Strong but can shatter



Materials Sheet 2



Material	Can you see Through it?	Can you change its shape?	Is it solid?	Will it float in water?	Any other comments?
Metal					
Plastic					
Glass					
Pottery					
Wood					
Fabric					
Rocks					