

Hyde Park Infant School - Science

Topic: Materials

Year: 1

Strand: Chemistry

Enquiry Question: How do we know when to use different materials for different purposes?

What should I already know?

You have learnt that and know that objects look and feel different based on the materials they are made from.

Overview



- Objects can be made from different materials. E.g., metal, wood, glass, rock.
- Objects can be grouped together based on the materials they are made from.
- Everyday materials have different properties. For example, paper is soft and smooth.
- Materials can be natural or man-made.

Diagrams



brick



fabric



paper



stone

hard

not easily broken or pierced



A hard diamond.

transparent

can be seen through



This glass is transparent.

soft

not firm to the touch



The kitten has soft fur.

flexible

able to bend



A flexible spring.

waterproof

repels water and liquids



A waterproof coat.

smooth

an even and regular surface



Some smooth pebbles.

Key Vocabulary

Object	A thing that can be seen and touched. For example, a door, a table, a car.
Material	Materials are what objects are made from.
Natural materials	These are materials that are naturally found around us. They may have to be dug out of the ground, grown, or taken from living things.
Man-made materials	These are natural materials that are changed through chemical processes by 'man' (humans)
Properties	The properties and characteristics of a substance.
Investigation	A plan for asking questions and testing possible answers.

Scientific skills

- Identify and classify.
- Observing closely, using simple equipment.
- Perform simple tests.
- Answer simple questions and recognise that they can be answered in different ways.

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Question 1: Which is an object?	Start of unit:	End of unit:
A. Metal		
B. Transparent		
C. Table		

Question 2: Which is a material?	Start of unit:	End of unit:
A. Chair		
B. Wood		
C. Soft		

Question 3: What is a property of stone?	Start of unit:	End of unit:
A. Soft		
B. Hard		
C. Transparent		

Question 4: What does transparent mean?	Start of unit:	End of unit:
A. See through		
B. Waterproof		
C. Solid		

Question 5: Which is a waterproof material?	Start of unit:	End of unit:
A. Wood		
B. Cotton		
C. Plastic		

Question 6: What material makes the best rain hat?	Start of unit:	End of unit:
A. Plastic		
B. Wool		
C. Cotton		