

# Colney Heath School ~ Science

Topic: Materials

Year: 1

Strand: Chemistry

## What should I already know?

Objects feel and look different based on the material they are made from.  
Some objects can change if you touch them.  
Different materials can be used when painting and making art.  
Objects can be sorted (put into groups) based on what they look like or feel like.

## Vocabulary

### Squashing



### Bending



### Twisting



### Stretching



## Diagrams

Which materials are some objects made from?



What words can I use to describe materials?



Which materials are natural and which are man-made?

- Some materials are **natural** while others are **man-made**.
- Natural** materials are materials which are found in nature.
- Man-made** materials are materials which have been produced by humans.

### Natural Materials



### Man-made Materials



## Vocabulary

Material

Material is the 'stuff' an object is made from.

Absorbent

Material that soaks up liquid easily.

Transparent

An object you can see through it.

Waterproof

Does not let water pass through it.

Opaque

An object or substance you cannot see through.

Fabrics

Cloth or other material produced by weaving together cotton, wool or other threads.

Man-made

Things that are created by people.

Natural

Things that exist in nature and are not made by people.

Properties

The way to describe something.

Liquid

Liquids can flow or be poured easily.

Surface

An outside part or layer of something.

Big Picture	By the end of our project we will know that
<p><u>Chemistry</u></p> <p>C1: All matter (stuff) in the universe is made up of tiny building blocks.</p> <p>C2: The arrangement, movement and type of the building blocks of matter and the forces that hold them together or push them apart explain all the properties of matter (e.g. hot/cold, soft/hard, light/heavy, etc).</p> <p>C3: Matter can change if the arrangement of these building blocks changes.</p>	<p>Objects are things that you can touch or see.</p> <p>Objects are made from materials.</p> <p>You can tell different materials apart by feeling them.</p> <p>Are they hard or soft, flexible or stiff?</p> <p>Materials are used for different reasons. Some materials are better than others for certain objects; for example, metal shoes wouldn't be very comfortable to wear and a cardboard door wouldn't be very strong!</p> <p>An object can be made out of different materials used together; for example, a chair can be made from metal and wood and a pencil from wood and lead.</p>

### Everyday materials



Glass



Wood



Metal



Rock



Plastic



Water



Rubber



Fabric



Paper