

# Year 2 - Science - Materials

## Key vocabulary

### rough

uneven,  
irregular surface



The log has rough bark.

### smooth

an even and  
regular surface



Some smooth pebbles.

### flexible

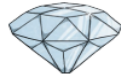
able to bend



A flexible spring.

### hard

not easily  
broken or  
pierced



A hard diamond.

### waterproof

repels water  
and liquids



A waterproof coat.

### soft

not firm to  
the touch



The kitten has soft fur.

### rigid

unable to be  
bent or forced  
out of shape



Stone is rigid.

### bumpy

uneven, raised  
patches



This shell is bumpy.

### shiny

reflects light,  
smooth surface



A shiny silver spoon.

### dull

lacking shine  
or brightness



The moth's wings are dull.

Materials can have more than property



Plastic can be flexible, shiny, waterproof and smooth.

Materials can be used for more than one use based upon their properties.

e.g. wood



shed



ruler



toy

## Key Vocabulary

<b>materials</b>	<b>Materials</b> are what objects are made from.
<b>suitability</b>	<b>Suitability</b> means having the <b>properties</b> which are right for a specific purpose.
<b>properties</b>	This is what a <b>material</b> is like and how it behaves (soft, stretchy, waterproof).

Squash an object by pushing both hands together.



Bend an object by grabbing both ends of the object and bringing the ends inwards together.



Twist an object by turning your hands in opposite directions.



Stretch an object by pulling your hands slowly and gently apart.



## Key Knowledge

### Properties of Materials



**wood:**  
hard, stiff,  
strong, opaque,  
can be carved  
into any  
shape.



**glass:**  
waterproof,  
transparent,  
hard, smooth.



**plastic:**  
waterproof,  
strong, can  
be made to be  
flexible or stiff,  
smooth or rough.



**metal:**  
strong, hard,  
easy to wash.



**paper:**  
lightweight,  
flexible.



**cardboard:**  
strong, light,  
stiff.



**fabric:**  
soft, flexible,  
hard-wearing,  
can be stretchy,  
warm, absorbent.



**rubber:**  
hard-wearing,  
elastic, flexible,  
strong.