# Jeavons Wood Primary School - Science Knowledge Organiser <br> Topic: Uses of everyday Materials <br> Year: 2 <br> Strand: Chemistry 

## Big Question: Can any material do any job? Do all materials squash, bend, twist and stretch?

## What should I already know?

*Objects feel/look different based on the material they are made from.
*Objects are things that you can touch or see and are made from materials.
*Some materials that objects are made from (e.g. glass, wood, plastic)
*Some words to describe materials (e.g. shiny, soft, rough absorbent)
*Materials which are natural and which are man-made.

## What will I know by the end of the unit?



| Vocabulary |  |
| :---: | :---: |
| absorbent | material that soaks up liquid easily |
| bendy | an object that bends easily into a curved shape |
| brick | rectangular blocks of baked clay used for building walls, which are usually red or brown |
| dull | a colour or light that is not bright |
| elastic | a rubber material that stretches when you pull it and returns to its original size and shape when you let it go |
| fabrics | cloth or other material produced by weaving together cotton, wool or other threads. |
| foil | sheets of metal as thin as paper |
| glass | a hard transparent material |
| man-made | things are created by people |
| metal | a hard substance such as iron, steel, gold, or lead |
| natural | things that exist in nature and are not made by people |
| opaque | if an object or substance is opaque, you cannot see through it |
| plastic | a material which is light in weight and does not break easily |
| process | a series of actions used to produce something or reach a goal. |
| properties | the qualities or features that belong to something and make it recognisable |
| purpose | the reason for which it is made or done |
| recyclable | waste or materials which can be processed and used again |
| rock | the hard substance which the Earth is made of |
| rough | uneven and not smooth |
| shiny | things are bright and reflect light |
| smooth | no roughness, lumps, or holes |
| soft | not rough or hard |
| squash | pressed or crushed with such force that something loses its shape |
| stiff | firm or does not bend easily stretchy |
| stretchy | slightly elastic |
| suitable | something that is suitable for a particular purpose or occasion is right or acceptable for it |
| transparent | If an object is transparent, you can see through it |
| twist | turn something to make a spiral shape |
| unsuitable | Someone or something that is unsuitable for a particular purpose or situation does not have the right properties for it |
| waterproof | does not let water pass through it |
| wood | the material which forms the trunks and branches of trees |

## Where will my learning go next?

In Yr 4: Compare and group materials together, according to whether they are solids, liquids or gases.
Observe that some materials change state when they are heated or cooled, and measure or research the temperature at which this happens in degrees Celsius $\left({ }^{\circ} \mathrm{C}\right)$.
Identify the part played by evaporation and condensation in the water cycle and associate the rate of evaporation with temperature.

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| Question 1: The most <br> suitable material to make <br> windows is: | Start of <br> unit: | End of <br> unit: |
| :--- | :--- | :--- |
| wood |  |  |
| metal |  |  |
| glass |  |  |
| rock |  |  |
| Question 2: The reason for <br> this is because: | Start of <br> unit: | End of <br> unit: |
|  |  |  |


| Question 3: Why do some <br> children drink out of plastic <br> cups rather than glass ones? | Start of <br> unit: | End of <br> unit: |
| :--- | :---: | :---: |
|  |  |  |
|  |  |  |


| Question 4: Stretching and <br> twisting an object will: | Start of <br> unit: | End of <br> unit: |
| :--- | :---: | :---: |
| change the shape of the <br> object |  |  |
| keep the object the same |  |  |


| Question 5: Match these properties of materials to the uses they are most <br> suitable for: | Start of unit: | End of unit: |
| :--- | :--- | :--- | :--- |
| a raincoat |  |  |
| a pillow |  |  |
| a sponge |  |  |
| a table | soft |  |

