## What should I already know?

Similarities and differences between common, everyday objects (EYFS)

Distinguish between an object and the material from which it is made ( Y 1 )

Identify and name a variety of everyday materials, including wood, plastic, glass, metal, water, and rock (Y1)

Describe the simple physical properties of a variety of everyday materials (Y1)

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

Objects are things you can touch or see.
Objects 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)

| What are |
| :--- | :--- |
| materials |
| used for? | | Materials are used for different purposes based on |
| :--- |
| their properties (glass = windows, wood = floors, |
| metal = cans, coins) |



How can
you
change the
shape of
materials?

The shape of some materials can be changed when they are stretched, twisted, bent and squashed.

| Vocabulary |  |
| :---: | :---: |
| bend | when something can become curved |
| flexible | something that can bend easily and not break |
| nonreflective | cannot reflect light |
| opaque | if an object or substance is opaque, you can not see through it |
| pull | a force that changes the direction of an object towards you |
| push | a force that changes the direction of an object away from you |
| process | a series of actions used to produce something or reach a goal |
| properties | the qualities and features that belong to something and make it recognisable |
| recyclable | waste or materials which can be processed and used again |
| reflective | a shiny surface that lets light bounce off it |
| rigid | something that does not bend or move |
| squash | pressed or crushed with such force that something loses its shape |
| suitable | something good or acceptable to use for a particular purpose or occasion |
| translucent | something that is a little see through and lets some light through |
| transparent | if an object is transparent, you can see through it |
| twist | turn something to make a spiral shape |
| unsuitable | something that does not have the right prop erties for a particular purpose |
| Investigate! |  |
| - Compare the uses of everyday materials in and around the school with materials found in other places. <br> Observe closely the uses of different materials and record your observations. <br> Distinguish between absorbent and waterproof materials. Discuss what happens when water is placed on these materials. <br> Consider why some properties of materials make them suitable or unsuitable for different uses. <br> Investigate if some items can be made by more than one material (cutlery) and explain why. <br> Investigate if some materials can be used to make more than one thing. <br> Discuss which materials are recyclable and why. Follow the recycling process. <br> Investigate how some objects can be changed by squashing, twisting and stretching. |  |

