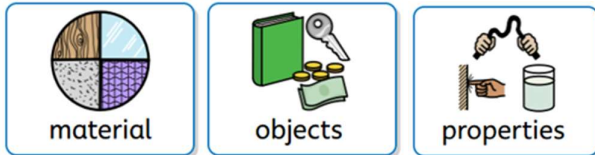


Science Knowledge Organiser-Year 2, Unit 1: Use of materials

Lesson 1:

Can we identify the materials that different objects are made from?



- Materials are used to make objects.
- The same materials are used to make lots of different objects
- Different materials are sometimes used for the same object
- Materials have different properties. 'Properties' describe the materials (for example, the properties of wood are that it is hard and strong).

Lesson 2:

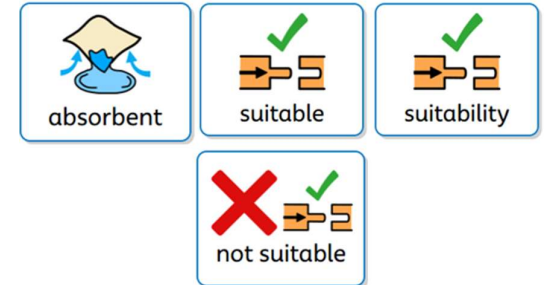
Can we identify how materials are used in our local area?



- Materials are used to make objects.
- The same materials are used to make lots of different objects.
- Different materials are used for the same object.
- Different materials have different properties.
- A material is chosen to make an object because of its properties.

Lesson 3:

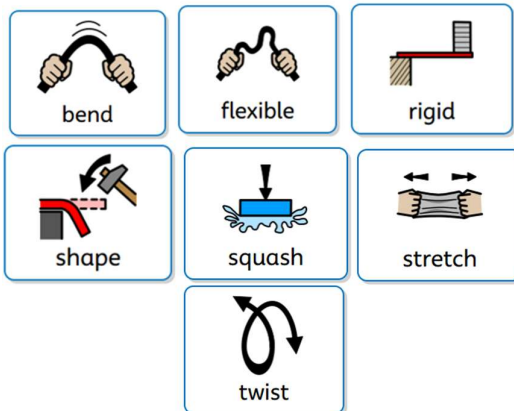
Can we compare the suitability of different materials?



- The properties of a material make it either suitable or unsuitable.
- Some materials are more suitable than others.

Lesson 4:

How can the shapes of objects made from some materials be changed?



- Objects that can be squashed, bent, twisted, or stretched are all made from flexible materials. Flexible materials can change shape. Objects that cannot be squashed, bent, twisted, or stretched are all made from rigid materials. · Rigid materials

Lesson 5:

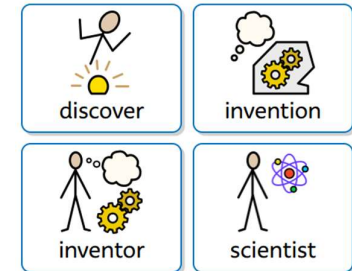
How can we help to stop plastic pollution?



- Recycling is when materials can be reused and made into new items.
- Plastic does not rot and not all plastic can be recycled.
- There are special symbols on packaging to tell you if something can be recycled.
- Lots of plastic ends up in the ocean.
- Animals can be hurt by plastic, especially if they mistake it for food and eat it.

Lesson 6:

How are new materials discovered?



- Throughout history, materials have changed the way that humans live.
- George Washington Carver invented new uses for the peanut, which helped struggling farmers to make a living.
- Stephanie Kwolek discovered a new material called Kevlar which has saved thousands of lives.
- Charles Macintosh invented the first waterproof fabric to keep people dry in the rain.

