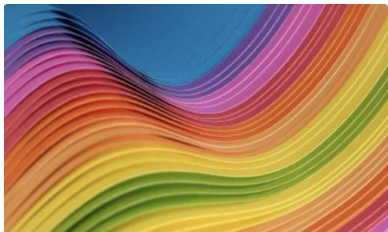


Careers linked to this topic
Materials Engineer, Road Designer, Road Engineer

Uses of everyday materials



What are materials used for and why?

Year 2
Autumn 1

Lesson 1 Identify materials and their uses.

What are the properties of everyday materials?

TAPS – Record: Materials Hunt
Brick, material, suitable, object, property

Lesson 2 Understand how to select the correct materials to build a bridge.

Why are some materials stronger than others?

Bridge, structure, obstacle, triangle, construction


Lesson 3 Explore and test the stretchiness of materials

How and why does stretching affect different objects?


Hinder, stretchy, elastic, floppy. limit

Materials		
material		uses
wood		window frames, furniture, buildings, floors
metal		furniture, buildings, statues, pipes, jewellery
plastic		containers, toys, bags, pipes
brick		walls, floors
rock		roads, garden paths, floors, kitchen tops
paper		toilet roll, writing paper, newspaper, cardboard
glass		drinking glasses, windowpanes, television screens


Forces




pull




bend




bridge triangles




squash




drag




carry



pull



push



Lesson 4 Understand that materials can change their shape by squashing, bending, stretching or twisting.

How do objects change when they are squashed, bent, stretched or twisted?

Force, twist, bend, stretch, squash

Lesson 5 Learn about Charles Mackintosh and how materials are used for different purposes.

Which properties make a material suitable for a particular purpose?

TAPS – Ask Qs +plan enquiry:

Waterproof
Waterproof, fluorescent, protective, safety, mackintosh

Lesson 6 Discover which materials change shape when making a road with John McAdam

Why do we melt some materials?

Bound, highway, merchant, road, John McAdam