



Knowledge Organiser: Uses of everyday materials

Careers connected to materials:
materials engineer, road designer, road engineer



Lesson Sequence



1. Identify different materials and their uses



2. Understand how to select the right materials to build a bridge



3. Explore and test the stretchiness of materials



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



5. Learn about Charles Macintosh and explore how materials are suitable for different purposes



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

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 glass, windowpane, television screen

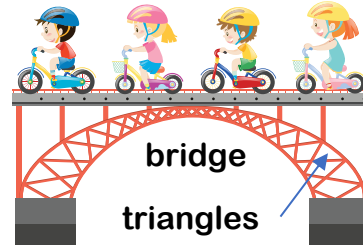
forces



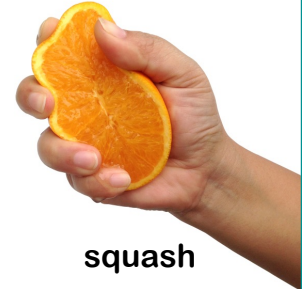
pull



bend



bridge
triangles



squash



drag

carry

pull

push





State what the materials below can be used to make.

wood



metal



plastic



brick



rock



paper



glass



Which force or action is shown in the picture

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