



### Lesson Sequence



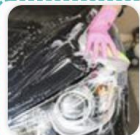
1. Identify different materials and their uses



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 glasses, windowpanes, television screens

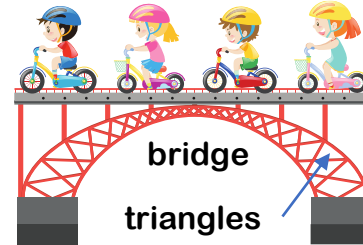
### Forces



pull



bend



bridge

triangles



squash

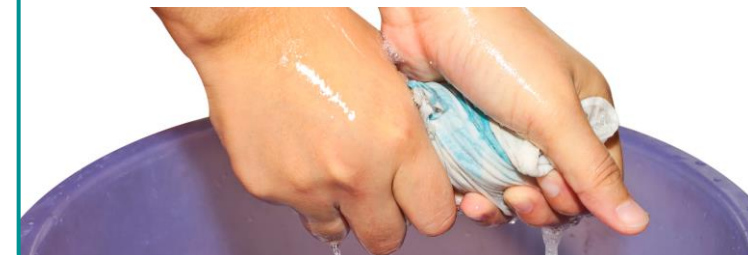


drag

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

..... -----

..... -----

..... -----

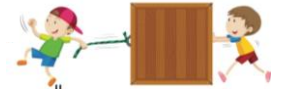
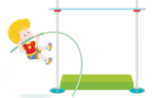
..... -----

..... -----

..... -----

..... -----

..... -----





**Rocket Words**

<b>material</b>	anything that is used to make something else
<b>property</b>	the way in which a material is described
<b>obstacle</b>	something that blocks the way
<b>construction</b>	the process of building something
<b>stretchy</b>	something that can pull apart without breaking; elastic
<b>elastic</b>	something that can pull apart without breaking; stretchy
<b>force</b>	a pressure applied to something that makes it change shape or move
<b>bend</b>	to shape or force something into a curved shape