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

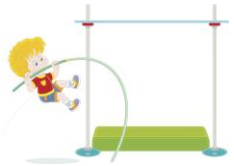
Materials

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 glasses, windowpanes, television screens

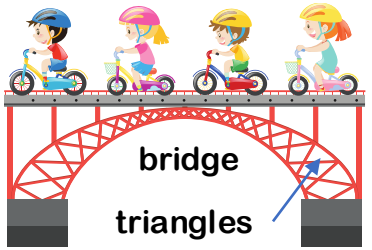
Forces



pull

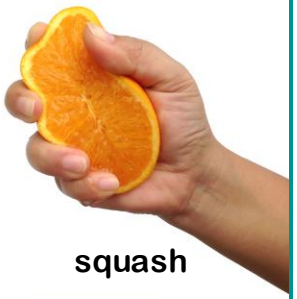


bend



bridge

triangles



squash



drag carry pull push



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Before and After Test

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

..... ----------



..... ----------



..... ----------



..... ----------



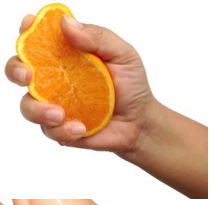
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Unit Rocket Words: Year 2 – Uses of everyday materials



Rocket Words

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

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