Knowledge Organiser: Uses of everyday materials

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

Sticky Knowledge



Glass is good for windows because it is transparent, wood is god for furniture as it is strong and easily cut



The best material for building a bridge is metal with triangular support structures.



When we test materials we must keep all the variables the same except for material so it is fair.



You can change the shape of materials by squashing, twisting, pulling, pushing heating and cooling.



Charles Macintosh invented the waterproof coat. Plastic is very waterproof.



Stones to make a road have durability and resistance to wear and tear, but they also had a property that allowed them to change shape under pressure. When the stones were compacted with the roller, they became tightly packed together and interlocked, creating a solid surface that could support heavy traffic.

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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