



## Year 1 – Structures/Uses of Materials

### **Element 1 – Structures & Uses of Materials**

#### **What is a structure?**

A structure is something that is built or arranged in a planned way. For example, have you ever built something out of blocks at home, or Lego? Well if you have, you will have had an idea of what you wanted to build and you will have ended up with a structure.



#### **Other types of structures:**

You will have seen lots of other structures in your house, garden or the village you live in. They might include: treehouse, swings and slides in the park or maybe even a bridge.





### Uses of Materials:

Wood, Plastic, Glass, Metal, Rock, Brick, Paper and Cardboard are just some of the many different materials that are used to make objects and all sorts of things in the world.

### Why use different materials?

Would you want your whole house to be made out of glass? If it was, everyone could see inside which is why we have bricks or wood instead.

Would you want your books to be made out of rock? If they were, they would be very heavy to carry and difficult to write on.

I wonder what the best material for a table would be? What do you think?



Some materials are chosen because they are strong and less likely to break.

Some materials are chosen because they are flexible (can be bent easily).

### Element 1 – Closed Test

- 1) What is a structure?
- 2) Can you think of 3 different structures in your village?
- 3) Can you name 3 different types of materials?
- 4) Why would you not make a whole house out of glass?
- 5) What does flexible mean?



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## **Element 2**

Can you make two different structures out of lego or blocks (plastic or wooden). As an extra challenge, could you make one of them really tall and one of them really small? If you do not have Lego or blocks, you could use junk modelling like cardboard boxes and tubes if you would like to.

Don't forget to take a picture and send them into school!

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