

What materials could we use to make Callum's new house? (Year 1)



1. What materials are these objects made from? (glass, metal, wood, plastic, water, rock)
2. What properties do these materials have?
3. What material would make a strong house for Callum? (brick, paper, foil, fabric, elastic)
4. Why would wood not make a good window for Callum's new house?
5. How can the inside stay dry if it rains?
6. How will I test my model? What worked well and how could I improve it? (eg: best material)

Hook for Learning:

Callum's Incredible Construction Kit – Jonathan Emmett
Junk modelling/ building-shelters, spaceships, houses.

We learn the following vocabulary:

materials, object, properties, wood, plastic, metal, rock, water, stretchy, stiff, bendy, shiny, rough, smooth, hard, soft, waterproof, absorbent

As Talkers can we...?

- Take turns in small groups or with a talk partner to discuss materials.
- Listen and engage with the speaker.

As Thinkers can we...?

- Tell others what they like about their work.
- Choose and use equipment needed for a set task.
- Work together to find solutions and outcomes that are of value.

We learn the following scientific knowledge and skills:

- Distinguish between an object and the material from which it is made.
- Identify and name a variety of everyday materials including, wood, plastic, glass, metal, water and rock.
- Describe materials using senses.
- Describe the simple physical properties of a variety of everyday materials (glass, wood, metal and plastic).
- Sort objects into hard or soft, stretchy or stiff, shiny or dull, rough or smooth, bendy or not, waterproof or not, absorbent or not.
- Compare and group together a variety of everyday materials on the basis of their physical properties.
- I can describe objects as opaque or transparent.

We learn the following design and technology knowledge and skills:

- Design and make models of houses/ shelters using different materials.
- Talk about our work telling others what we did and why and explore how we might change it next time.

We learn the following writing knowledge and skills:

- Write a set of instructions for building their model house.
- Write labels to explain models.
- Use adjectives to describe the materials they are going to use.

We learn the following maths knowledge and skills:

- To explore mathematical language associated with SSM