

**Hook** - Linked to Literacy hook. A trail of the different materials and footprints in the classroom. The children will watch the teachers act out the 'Three Little Pigs' story.

# Year 1: Science Medium Term Plan: Autumn 1



**Areas of learning (theme/subject)** Which subject areas will be included through this project? Literacy, History, DT

**Texts:** The Three Little Pigs, What is a Wall after all? By Judy Allen

**Key vocabulary:**  
 material, object, wood, plastic, glass, metal, water, rock, brick, straw, paper, fabric, elastic, foil, card/cardboard, rubber, wool, clay, hard, soft, stiff, bendy, floppy, Waterproof, absorbent, breaks/tears, rough, smooth, shiny, dull, strong, heavy, light.

**Significant individuals**  
 Introduce the role of scientists in our world. A person who studies the world around us including things living and non-living.

**Resources:** objects made from a variety of different materials, including a piece of wood, glass, metal, fur fabric, a plastic, rubber paper sponge, clay; Samples of materials, wood, plastic, glass, metal, cloth, fake fur, paper and card; timers; large sheets of paper Materials to build the houses, sugar cubes, straw, lolly sticks, legobricks. Materials for waterproof investigation

## Everyday Materials

**Curriculum**  
 What will we learn?

**Children will be able to:**  
 Know the name of an object and name the material it is made from will be different.  
 Know the name of some everyday materials, including wood, plastic, glass, metal, water and rock.  
 Describe the simple physical properties of a variety of everyday materials.  
 Compare the simple physical properties of a variety of everyday materials and group similar ones together.

**Working Scientifically**

- Observe closely using simple equipment
- Identify and classify
- Ask simple questions
- Gathering and recording data to help in answering questions

**Creativity:** How will we show we understand in multiple ways? What does the Rainbow Continuum (Blooms Taxonomy) guide us to do?

Bucket school with Mrs Bolton. Weeks 1-3 outdoor learning (see separate plans)

4. **Material hunt.** Looking at the different materials the buildings/structures are made from in and around the school. In pairs, children are given an object, they identify which material it is made from and then try to find other objects made from the same material. They go on a hunt around the school to find something made from each of the different materials in the objects box. Draw and label objects. Draw and label object made from different materials. They share their findings as a class and look at their results. **WS. To be able to identify and classify. To be able to ask simple questions.**

5. **Investigation.** Can you build a wall that the wolf (hairdryer) can't blow down? Using a selection of materials, predict which material will be the most successful and why. **WS. Observing closely, using simple equipment, performing simple tests, Identifying and classifying, Gathering and recording data to help in answering questions.**

6. Investigation. 'The Three Little Pigs' tent has a hole in it. Can you find a waterproof material to stop them getting wet? **WS. Observing closely, using simple equipment, performing simple tests, Identifying and classifying, Gathering and recording data to help in answering questions.**

**Connections**  
 What are the connections to our curriculum - past, present and future?

In F2 children know about similarities and differences in relation to places, objects materials and living things. They talk about the features of their own immediate environment and how environments might vary from one another. They make observations of animals and plants and explain why some things occur and talk about changes.

In year 2 children will investigate a wider range of materials and explore the properties of these materials including how this can affect their usage and purpose

**Compassion**

We all need a place to live. As humans we need homes in which to take shelter; where we can feel safe and secure, whatever the environmental conditions, threats and dangers that exist outside the walls of our homes. Other animals need homes too and often have very different requirements from us.

Materials are the substances that are used to make objects, including everything we use in the world.

Materials are the 'stuff' of the world.

To engage children's awareness and thinking about how materials are around them in everything they see, feel, touch taste and hear.

**Community**  
 What links can we develop 'Near and Far'? What opportunities will we create to use the outdoors?

Bucket school, outdoor learning

Use our school grounds to go on a material hunt. Children will utilise the wider school setting to explore and record materials found around the school grounds.

They will record observations of the Autumn season. They will compare the seasons outlining similarities and differences.

