

**Science Medium Term Plan**  
**Year 1 Spring Term 1**

## **How are materials useful?**

**What are the names of the materials that we see around school?**

**Why do we need different materials to build a house?**

**Which materials keep us dry?**

**Which materials keep us warm?**

### **Substantive Knowledge**

- Know that a material is what an object is made from
- Know and identify objects made from wood, plastic, glass, metal, fabric, water and rock
- Know the properties of wood including – hard, strong, opaque.
- Know the properties of plastic including – waterproof
- Know that plastic can sometimes be soft and flexible and sometimes be hard and strong
- Know the properties of glass including – transparent, hard
- Know the properties of metal including – hard, shiny, waterproof
- Know the properties fabric including – soft, flexible

### **Disciplinary Knowledge**

## Working Scientifically

### Comparative and fair test

- Compare the suitability of everyday materials for a particular job e.g. keeping us dry.

### Grouping and Classifying

- Identify different materials based on their properties.
- Group different materials based on their properties.

### Need to know knowledge:

- Know there are many different types of materials and their names.
- Know the properties of everyday materials including transparent, waterproof, flexible, strong.

### Vocabulary: (including definitions)

#### Material

What an object is made from

#### Property

Helps us describe how a material looks and feels

#### Hard

Not easily bent or broken

- That some materials are useful and some are not in different circumstances.

**Shiny**

Reflects light

**Transparent**

See-through

**Waterproof**

Does not let water through

**Flexible**

It can bend easily

**Opaque**

Can't see through it

**Investigate**

To test an idea

## **Prior Knowledge:**

Early Years

- The three little pigs story (materials and houses)
- Construction
- Exploring materials through play

