

# Eversley Primary School- Knowledge Organiser



Science Everyday materials Year 1 Summer Term

### **Key Knowledge**

#### Materials

The matter from which an object is or can be made. We create objects by treating and shaping materials in different ways. Examples include: wood, plastic, glass, metal, water, rock, brick, fabric, sand, paper, flour, butter, milk, soil.

### **Properties**

An attribute, quality or characteristic of materials. Properties of materials can be changed through heating, cooling and other methods. Examples include: hard/soft, stretchy/not stretchy, shiny/dull, rough/smooth, bendy/not bendy, transparent/not transparent, sticky/not sticky.

# Using our senses to explore materials

Our 5 senses are: touch, taste, smell, sight and hearing.

We touch using our skin (usually our hands), we taste using our tongues by putting something in our mouth, we smell by using our nose, we see using our eyes and we hear using our ears.

## **Pictures and Diagrams**





Transparent



### **Statutory requirements**

- Distinguish between an object and the material from which it is made
- Identify and name a variety of everyday materials, including wood, plastic, glass, water and rock
- Describe the simple physical properties of a variety of everyday materials
- Compare and group together a variety of everyday materials on the basis of their physical properties

### **Key Vocabulary**

key vocabulary	
Texture	The feel, appearance, or consistency of a surface or a substance
State	The physical condition of a material (solid, liquid, gas)
Hard	Not easily broken or bent
Soft	Easy to cut, fold or change its shape
Smooth	It has no lumps or bumps
Rough	It feels and looks uneven or bumpy
Bendy	Can be bent easily into a curved or folded shape
Stretchy	Can be pulled to make it longer or wider without breaking
Waterproof	It keeps water out. It keeps things dry
Absorbent	It soaks liquid up
Transparent	It can be seen through
Opaque	It can't be seen through
Dull	Doesn't reflect light. Doesn't look bright or shiny

# **Possible Experiences**

- Find and classify objects according to the material from which they are made.
- Feely bags of different textures to explore.
- Sort objects according to property.
- Observe changes in materials through heating and cooling (freezing water to make ice, melting chocolate, 'Will it melt?' experiments)
- Observe changes through cooking, baking biscuits or making ice cream.
- Simple tests: what is the best material for an umbrella? Lining a dog basket? Superhero costume?