

### **'A Raincoat for Beepy'**

#### **Interactive animation**

Use senses to explore & recognise the similarities & differences between materials. Sort objects into groups on the basis of simple material properties. Recognise & name common types of materials. Find out about the uses of a variety of materials.

### **Manipulating Materials**

Handle a variety of materials that will behave in a range of different ways when manipulated.

Can you make the material change shape at all? Describe what is causing the material to change shape. Does it return to its original shape when you stop? If not why not? Can you return it to its original shape?

Complete an 'Opposites' properties matching activity.

### **Mystery Materials**

Read the clues describing different materials. Identify which material best fits the description.

### **Science Songs**

Sing the 'Materials Song' & 'Changing Materials' to be more familiar with scientific vocabulary around grouping and changing materials.

## **Science Spring 2019 EYFS & KS1**

### **Working scientifically**

Look closely at the natural & man-made world around them. Be curious & ask questions about what they notice. Use simple scientific language to talk about what they have found out & communicate their ideas to others in a range of ways.

### **Seasonal Changes**

Observe, describe & record the changes across the seasons. Observe & describe weather associated with the seasons & how day length varies. Display what happens in the world around them as the seasons change.

### **Everyday Materials**

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, and compare their suitability for particular uses. Compare and group together a variety of everyday materials on the basis of their simple physical properties. Find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching & heating.

### **Waterproof Materials**

Short video to demonstrate the planning & modelling of an experiment to determine which materials are waterproof. Discuss & answer the questions raised during the experiment.

Pupils then carry out a planning sheet for their own investigation, and the investigation themselves, recording the results. Was the result what was expected? If not, why not?

### **Seasonal Changes**

Make regular observations & recordings of Winter. Describe Winter weather, temperature, day length, plant & animal behaviour. What regular seasonal festivals do we celebrate at this time of year?

### **Investigating Y2**

Children carry out an investigation into the properties of 10 small objects. They predict and test whether it is magnetic, transparent, floats, or can be squashed or stretched.

Children carry out an investigation into how they can change the shape of up to 8 classroom objects. They predict before they test and then discuss their findings.

### **Investigating Y1**

Children carry out an investigation into whether 5 objects from around the classroom float or sink. They record their results on a simple table.

Children carry out an investigation to find out which is the most absorbent of 4 materials. They use a table to order their results and use them to answer the question.