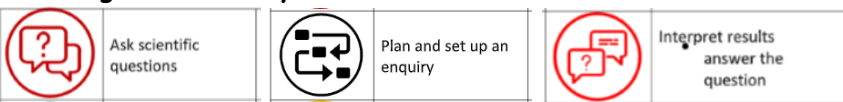


Prior Learning: Children will know how to safely use and explore a variety of materials

Concept: Materials

In this unit you will become Material Marvels working scientifically to explore best materials for different objects.

Working Scientifically:



1. TWAL to identify and name everyday materials

We will explore 5 materials that we see and use every day: wood, fabric, glass, plastic and metal. Each table will have a selection of one material. What is the same? What's different? Swap tables until you have explored them all! Can you name pictures of materials?



Name wood, fabric, glass, plastic, metal, stone



2. TWAL to distinguish objects from materials

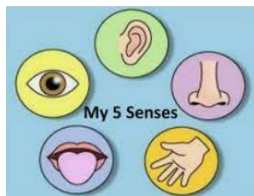
Look at an object. What is it made from? The materials are what an object is made of. Look at the everyday objects around the classroom. What materials are they made of? Can you sort them?



Materials are what an object is made of

3. TWAL to describe simple properties of materials

We are going to explore properties of materials. What words can you come up with to describe them? We will learn some new property words today and choose materials to describe! Can you use your senses?



4. TWAL to compare and group materials by properties?

In groups, explore a selection of objects and materials. Can you sort them into different groups e.g. rough, smooth, stretchy, stiff, opaque, transparent? What groups can you come up with?



5. TWAL to set up a test best material for an umbrella?



Let's set up some tests to see which materials are waterproof. You will have lots of materials including a sponge, paper, foil, bin bags, glass, fabric, elastic cling film. Set up a test to see which are waterproof by making an umbrella for Inchy. Which keeps him dry? Are there other properties you need to think about?

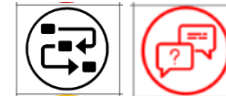


Waterproof doesn't let water through.



6. TWAL to test and interpret other materials.

Now we are Material marvels, we need to test other materials for some superheroes! Set up tests to help your superheroes fight crime! What about some material to help them clean up after a tidal wave?



Words we will know!

