

Past enquiries that may help:

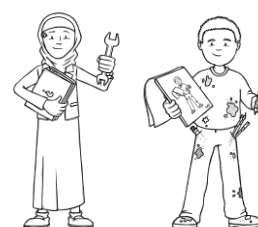
What is my hat made of?

(Y1)

What do artists do? (Y1)



What could my classroom be made of?



Key Vocabulary				
plastic		wood		stretch
metal		squash		flexible
stone		bend		rigid
glass		twist		waterproof
old		older		modern

What are things made of and how can we sort them?



Engage: Letter from FOPS about a new outside area

What makes some materials more useful than others?



What materials are buildings made from in our local area?



How do some objects change shape?



What does an architect do?



What does my design look like and why have I chosen this design?



How can I join materials to make my structure?



How do scientists and engineers work together?



Challenge: Create a design for an outside space. Hold a design exhibition.

Know of

Know the difference between an object and the material it is made from

Identify and name materials (wood, metal, plastic, glass, brick, rock, paper, cardboard) and describe simple properties

Compare the suitability of materials (wood, metal, plastic, glass, brick, rock, paper and cardboard) for particular uses.

Know that some materials are not suitable due to their properties, e.g. paper would not make a good window

Know that engineers need to create a labelled diagram of their product

Know that engineers repeat the design process many times to produce the 'best' product.

Know that some objects can be made from a range of materials e.g. spoon can be made from metal, plastic or wood

Know how

Compare and group materials by their properties

Sort materials by different properties on a Venn diagram

Carry out simple tests to find the best material for a purpose

Choose materials for a specific purpose and explain why they are suitable

Explore how the shape of some materials can be changed by squashing, bending, twisting and stretching.

Join materials in different ways, including glue, sticky-tape and masking tape

Know how to tie a knot

Build structures and explore how they can be made stronger, stiffer and more stable

Use the words 'old', 'older' and 'modern' correctly

