

Science Overview – Materials

Year 2

Spring 1

Key Question: What makes a superhero?

National Curriculum

- identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses.
- find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching.

SUBSTANTIVE KNOWLEDGE

- Know what materials objects are made from.
- Describe the properties of materials.
- Know that some materials are more suitable for a specific purpose than others based on their properties.
- Know that some materials are found naturally and others are man-made.
- Identify natural and man-made materials.
- Know the names of some scientists who have invented new materials (John McAdam, John Dunlop and Charles Macintosh).
- Know that some materials can be changed by squashing, bending, twisting and stretching.

Key words:

materials
properties
natural

Key Vocabulary

suitability, man-made, absorbent, non-absorbent

Working Scientifically

- Perform simple tests
- Gather and record data to help in answering questions

Enquiry type to cover and enquiry suggestion

Comparative test (enquiry type)
Which is the best materials for Super Ted's umbrella?

Learning Milestones /Assessment

I can...

- Identify the material different objects are made from.
- Suggest a suitable material for an object.
- identify some natural and man-made materials.
- Give reasons why certain materials would be suitable for a particular job.
- Name materials that can be stretched, bent, squashed and twisted.