

SCIENCE: MATERIALS – SHAPING UP

Key Vocabulary

twist, squash, bend, stretch, squashing, bending, twisting, stretching, push, pull, pushing, pulling, roll, pinch, press, smooth, flexible, rigid, stretchy, squashy, elastic, stiff, properties, suitable, stretchiness, weight, catapult, frame, missile, strong, table, column, Venn diagram, set, sort, label, measure, record, bar chart.

Must – know knowledge




By the end of the unit, children will:





- Identify materials that can be changed by the actions of squashing, bending, twisting and stretching.
- Discover that some materials have different properties according to how they are shaped and what they are made into, and choose materials for uses according to their properties.
- Learn that pushes and pulls can cause movement or a change in shape.

Working Scientifically

- Carry out identifying and classifying enquiries and comparative tests.
- Record using photographs, labelled drawings, Venn diagrams, tables and bar charts.
- Measure using non-standard or standard measures.

The bouncing ball investigation

Does not bounce	
Water polo ball 	Bowls ball 
Hockey ball 	

Bounces	
Basketball 	Rugby ball 
Netball 	Cricket ball 



Experiments:

- What fabric will make a bedroom dark? - Which is the bounciest ball?
- How can I change the shape of an object? - Which material should I use for a catapult?