ROCKET WORDS Learn these words and their definitions.

Key Word	Definition
comparative test	Undertaking a test with a controlled variable to help answer questions.
elasticity	The ability of a material to resume its normal shape after being stretched or compressed.
plasticity	The ability for a material to be easily shaped or moulded.
transparent	The ability to allow light to pass through so that objects behind can be distinctly seen.
thermal conductivity	The ability of a material or substance to conduct or transfer heat.
electrical conductivity	The measure of the amount of electrical current a material can carry or it's ability to carry a current.

Knowledge Organiser

Properties of Materials - Part 1

Ways to test materials

Hardness

How resistant a material is to scratching and pressure. *Hard materials: hardwood, metal, plastics*



Strength

The amount of force needed to break a material.

Strong materials: many metals and woods.



Lesson Sequence

•To investigate materials and their properties.

•To understand what insulators are.

Elasticity

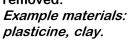
Ability of a material to turn to its original shape after the force is removed

Elastic materials: rubber bands, metal coil springs



Plasticity

Ability to retain the new shape when the force is removed.





•To group materials according to their properties.

•To investigate thermal insulation.

Absorbency

Ability of a material to soak up liquid.

Absorbent materials: sponge, cotton wool, towel.



Waterproof

Resistant and repellent to a liquid Waterproof materials: Many rubbers and plastics



•To investigate thermal conduction and insulation.

•To sort materials using a classification key.

Some insulating materials found in our houses include fibre glass loft insulation, cavity wall filler and double-glazed windows.



