

Year 5 Science Aut 1

Topic: Material Properties

Key Facts	Diagram/Investigations	
Different materials are used for particular jobs based on their properties: electrical conductivity, flexibility, hardness, insulators, magnetism, solubility, thermal conductivity, transparency.	them? Can you describe how you knew (the me rough and I could squeeze it, etc.). Why do we Investigate the properties of different materials.	be best for keeping mountaineers warm whilst climbing
Key Learning:	Prior Learning:	Books to support/ Enrichment Opportunities:
Compare and group together everyday materials on the basis of properties including hardness, solubility, transparency, conductivity (electrical and thermal) and response to magnets. Give reasons based on evidence from comparative and fair tests, for particular use of everyday materials including wood, plastic and metals.	This unit builds upon previous work from year 3: 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.	Traight forward with Science MATERIALS AND PROPERTIES

Subject Specific Vocabulary		
Key word	Definition	
Material	The substance something is made out of.	
Hardness	The ability of a material to resist change in shape.	
Solubility	The maximum quantity of a substance that can be dissolved in another	
Transparency	The quality of being easily seen through	
Conductivity	The ability or power to conduct or transmit heat, electricity, or sound.	
Electricity	The presence or flow of charged particles	
Thermal	Caused by or related to heat or temperature.	
Magnetism	The force exerted by magnets when they attract or repel each other.	
Permeability	The ease of passage of liquids or gases or specific chemicals through the material.	