

Newton Tony Primary School CE VC
Science key skills and knowledge

Materials

Year 1	I know that a material is what an object is made from.
	I know that wood, plastic, glass, metal, water and rock are materials.
	I know that property refers to how a material can be described. I know that rock is hard, glass is transparent.
Year 2	I know that a force like a push or a pull must be applied to change the shape of a solid object.
	I know that plastic can be used for making loom bands and for making phones.
	I know that wood and metal can be used to make toys.
Year 3	I know that rocks may contain grains, crystals or fossils.
	I know that rocks can be grouped based on their appearance or properties, (e.g. colour, texture, hardness, permeability.)
	I know that fossils can form from the remains of living things.
Year 4	I know that in the water cycle, condensation is the process of water vapour cooling to form water droplets in clouds, which can result in precipitation.
	I know that a property of a solid is that it keeps its shape unless a force is applied to it.
	I know that a property of a liquid can flow freely and take on the shape of a container.
	I know that a property of a gas does not have a fixed shape and can escape from an unsealed container.
Year 5	I know materials that have hardness, solubility, transparency, conductivity and response to magnets.
	I know that salt will dissolve in water. I know if I cook a raw egg the change is irreversible.
	I know that some liquids and solids can be separated using sieving, filtering and evaporation and I can describe these processes.
	I understand that new materials can be formed and that these are usually irreversible. (e.g. burning wood/charcoal)