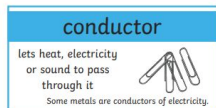
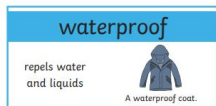
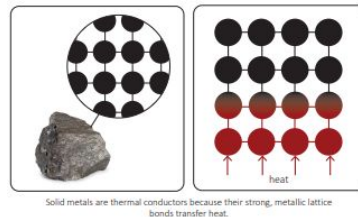




Year 5 Science - Summer Term 1: Properties & Changes of Materials



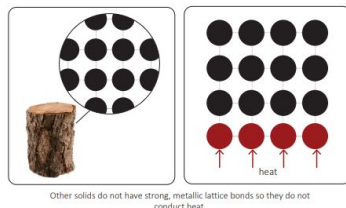
1. Materials can be grouped according to their basic physical **properties**. Properties include: *hardness, solubility, transparency, conductivity (electrical and thermal) and magnetism.*



2. **Thermal conductors** conduct heat. Solid metals are good thermal conductors because their **particles** are closely packed and they have strong, lattice metallic bonds.

What are the properties of materials and how can they change?

3. **Solids**, such as plastic, wood and glass do not have these bonds so they do not conduct heat. They are **thermal insulators**. Liquids and gases are poor conductors of heat because their particles are further apart.



4. **Solubility** is a measure of a material's ability to dissolve in a solvent. A material is **soluble** if it can dissolve in a solvent to form a solution. A material is **insoluble** if it cannot be dissolved in a solvent to form a solution. **Dissolving** is when a solute becomes incorporated into a solvent and can no longer be seen.

dissolve	soluble	insoluble	bonds	conduct	insulate
particles	solubility	conductors	properties	insulators	solution