Knowledge Organiser - Science (biology) Year 5 Summer 2 2023

# Properties of materials

### STICKY KNOWLEDGE Conductive materials allow Thermal conductors allow Hardness is heat/ heat to pass through them resistant to electricity to pass through quickly. scratching and Thermal insulators do not them pressure Magnetic materials are allow heat to pass through attracted to a magnet them quickly. Transparent materials allow light to pass through them so they can be seen clearly Materials which dissolve in Mixtures can be liquids are soluble. separated by filtering, sieving, evaporating or Materials which do not dissolve magnets. **KEY VOCABULARY**

# magnets. KEY VOCABULARY Thermal Using or producing heat conduction Heat moving from one object to another through contact solute A subject that can be dissolved in liquid solvent A substance that can dissolve a solute saturation Unable to dissolve or absorb any further

### **Properties of Materials**

conducts
energy
insulates
energy
transparent



durable (strong)







## **Everyday Materials**

Metal saucepans conduct heat to warm food.



Wooden spoons and plastic handles insulate heat so hands do not get burned.

### Soluble Materials

Some solids dissolve in water (SOLUBLE).

coffee sugar salt jelly

Some solids do not dissolve in water (INSOLUBLE).

pepper sand wax

**Separating Materials** 

Sieving

Magnetism

**Filtering** 

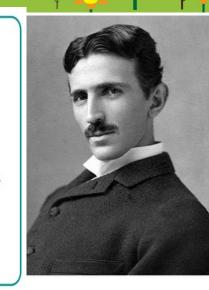
Magnetic

metals:

iron

nickel

steel





Inventor of the modern alternating current (AC) electricity supply system.