Carr Head Primary School - Knowledge Organiser

Science

Properties of Materials

Year 5

Autumn 1

<u>COMPARING AND GROUPING</u> - Materials can be compared and grouped together on the basis of their properties including:

- Hardness how hard or soft a material is
- Solubility whether a material can dissolve
- Transparency whether it allows light to pass through
- Conductivity (electrical or thermal) –
 whether it allows heat or electricity to carry
 through
- Response to magnets whether it is magnetic







Flexible



Soluble

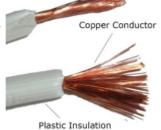
Insoluble



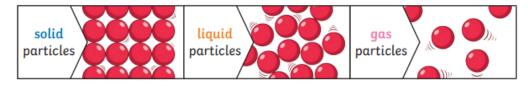


Electrical conductors allow electricity to pass through them easily while electrical insulators do not.





hard for electricity to pass through these objects.



Different materials are used for particular jobs based on their properties: electrical conductivity, flexibility, hardness, insulators, magnetism, solubility, thermal conductivity, transparency.

Quiz
What is an electrical insulator?
What does transparent mean?
What does impermeable mean?
What does solubility mean?

