

Properties of materials

Skills:

Compare and group together everyday items on the basis of their properties

Key vocabulary:

Transparent	Properties
Translucent	Lifespan
Opaque	Circuit
Magnetism	Electrical insulator
Hardness	Electrical conductor
Temperature	
Thermal insulator	

Must-know knowledge:

- An electrical conductor is a material that allows electricity to flow through it.
- Materials can be transparent, translucent or opaque.
- Metals are good conductors of electricity and heat.
- Plastics are good insulators of electricity.
- Not all metals are magnetic.

Working Scientifically:

- Plan and perform fair tests.
- Record and present results.
- Use evidence gathered to support or refute ideas and draw logical conclusions.



5 Electrical Conductors



silver



gold



copper



steel



sea water

5 Electrical Insulators



rubber



glass



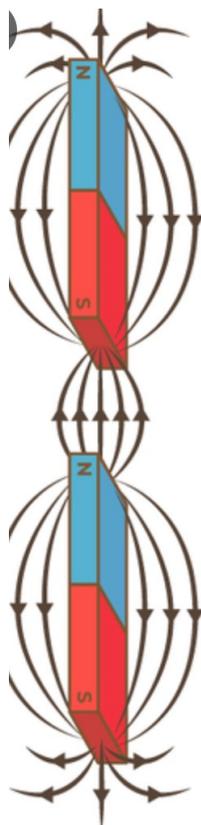
oil



diamond



dry wood



Experiments:

- Identify properties of materials
- Group materials based on properties
- Present findings in a clear frame
- Support findings with scientific reasoning