



Science - Year 5 and 6 Materials

Properties of Materials

Transparent	See-through
Opaque	Something light can't pass through
Translucent	Some light passes through, but the light is scattered, so objects can't be clearly seen
Electrical/thermal conductor	A material or device which allows electricity/heat to carry through.
Insulator	A material that does not allow heat (or electricity) to travel through it.
Flexible	Can be bent without breaking & opposite to brittle

Plan a comparative test

Enquiry question - Which cup is most suitable for keeping warm water warm?

Decide which variable you will change

Decide which variables you will keep the same

Decide how you will measure the changing variable

Record the method

Record the results

Draw a conclusion based on the results

Key Vocabulary

Conduct	Transfer of energy
Insulate	Preventing the transfer of energy
Electrical	Type of energy that's created by the movement of electrons between two point
Thermal	Relating to heat or changes in temperature
Magnetic	something has the ability to attract or repel other objects using a force called magnetism

Being a Scientist

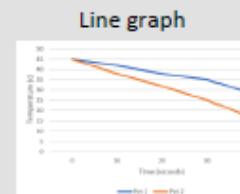
We can show the different properties of materials using:



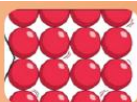
Carroll diagram



We can use a line graph to draw conclusions about the results of our experiments.



solid



freeze
melt

liquid



evaporate
condense

gas

