

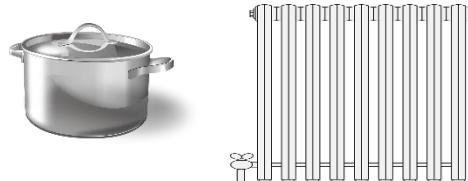
# SCIENCE - Properties of Materials

## Year 5 - Lent Term 1

**Thermal Insulators** - Do not let heat travel through easily such as fabrics, wood and plastics. Can keep heat in or out.



**Thermal Conductors** - Lets heat travel easily through such as metals.



When things get hot, atoms start to vibrate. Heat produces energy. This could cause them to change state!

### Key words

**Magnetism** - a non-contact force created by a magnet

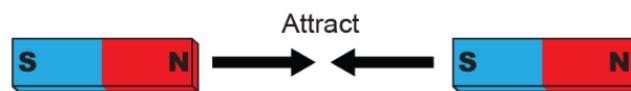
**Transparency** - an object or material that allows all light to pass through it.

**Electrical Conductivity** - how easily electricity passes through something.

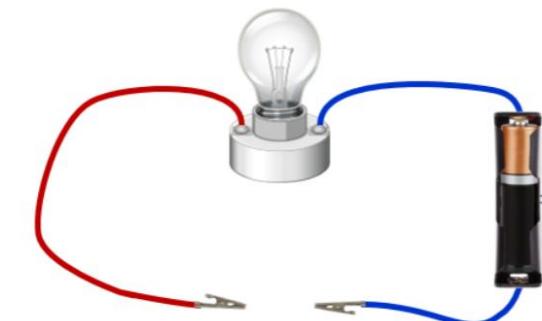
**Insulators** - materials that do not let heat pass through easily.

**Insulating Heat** - using materials that slow down heat transfer.

**Heat Transfer** - when energy moves from hot to cold.



We can test whether a material is **conductive** by placing it within a **circuit**.



insulator



conductor

a material that does not let electricity pass through it easily

a material that lets electricity pass through it easily