

Key Stage 3 Precise Learning Points



Unit Number

C2

Unit Title

Particles & The Periodic Table

Chapter

Metals & Non-metals

Key Scientific Points

1. Metals generally are:
 1. Malleable
 2. Ductile
 3. Sonorous
 4. Good electrical and thermal conductors
 5. Shiny
 6. Strong
2. More reactive metals will replace less reactive metals from their compounds
3. More reactive non-metals will replace less reactive non-metals from their compounds
4. Metals often react with non-metals making compounds where metal atoms are bonded to the non-metal ones.
5. An atom is made of a positively charged dense nucleus with negatively charged electrons orbiting at a great distance.
6. An electric current is the movement of electrons, Electrons are free to move through metals but not non-metals and so metals conduct electricity and non-metals do not
7. Rubbing different insulators together can result in electrons moving from one substance to the other creating a + charged and – charged material. This is called a static charge because the electrons are not free to move and the materials remain charged.
8. Metals can't be charged in this way as electrons move freely through them and so the charge doesn't build up.