

Chapter 1: Atomic structure

Knowledge organiser

Development of the model of the atom

Dalton's model

John Dalton thought of the **atom** as a solid sphere that could not be divided into smaller parts. His model did not include **protons**, **neutrons**, or **electrons**.

The plum-pudding model

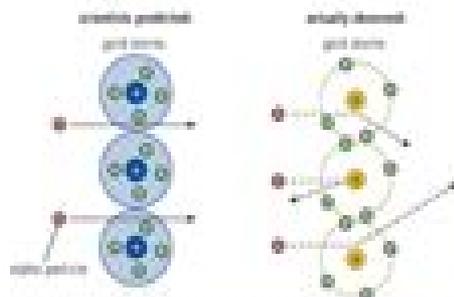
Scientists' experiments resulted in the discovery of sub-atomic charged particles. The first to be discovered were electrons - tiny, negatively charged particles.

The discovery of electrons led to the plum-pudding model of the atom - a cloud of positive charge, with negative electrons embedded in it. Protons and neutrons had not yet been discovered.



Alpha scattering experiment

- Scientists fired small, positively charged particles (called alpha particles) at a piece of gold foil only a few atoms thick.
- They expected the alpha particles to travel straight through the foil.
- They were surprised that some of the alpha particles bounced back and many were deflected (alpha scattering).
- To explain why the alpha particles were repelled the scientists suggested that the positive charge and mass of an atom must be concentrated in a small space at its centre. They called this space the **nucleus**.



Nuclear model

Scientists replaced the plum-pudding model with the nuclear model and suggested that the electrons **orbit** the nucleus, but not at set distances.



Electron shell (Bohr) model

Niels Bohr calculated that electrons must orbit the nucleus at fixed distances. These orbits are called **shells** or **energy levels**.



The proton

Further experiments provided evidence that the nucleus contained smaller particles called **protons**. A proton has an opposite charge to an electron.

Size

The atom has a radius of 1×10^{-10} m. Nuclei (plural of nucleus) are around 1000 times smaller than atoms and have a radius of around 1×10^{-14} m.

Relative mass

One property of protons, neutrons, and electrons is **relative mass** - their masses compared to each other. Protons and neutrons have the same mass, so are given a relative mass of 1. It takes almost 2000 electrons to equal the mass of a single proton - their relative mass is so small that we can consider it as 0.

The neutron

James Chadwick carried out experiments that gave evidence for a particle with no charge. Scientists called this the **neutron** and concluded that the protons and neutrons are in the nucleus, and the electrons orbit the nucleus in shells.

Elements and compounds

Elements are substances made of one type of atom. Each atom of an element will have the same number of protons.

Compounds are made of different types of atoms chemically bonded together. The atoms in a compound have different numbers of protons.

Drawing atoms

Electrons in an atom are placed in fixed shells. You can put:

- up to two electrons in the first shell
- eight electrons each in the second and third shells.

You must fill up a shell before moving on to the next one.



Mixtures

- A mixture consists of two or more elements or compounds that are not chemically combined together.
- The substances in a mixture can be separated using physical processes.
- These processes do not use chemical reactions.

Separating mixtures

- distillation - insoluble solids and a liquid
- crystallisation - soluble solid from a solution
- simple distillation - solvent from a solution
- fractional distillation - two liquids with similar boiling points
- paper chromatography - identify substances from a mixture in solution

Atoms and particles

	Relative charge	Relative mass	
Proton	+1	1	= atomic number
Neutron	0	1	= mass number - atomic number
Electron	-1	1/1836 (very small)	= same as the number of protons

All atoms have equal numbers of protons and electrons, meaning they have no overall charge.
 total negative charge from electrons = total positive charge from protons

Isotopes

Atoms of the same element can have a different number of neutrons, giving them a different overall mass number. Atoms of the same element with different numbers of neutrons are called **isotopes**.

The **relative atomic mass** is the average mass of all the atoms of an element:

$$\text{relative atomic mass} = \frac{(\text{abundance of isotope 1} \times \text{mass of isotope 1}) + (\text{abundance of isotope 2} \times \text{mass of isotope 2})}{100}$$

Key terms

Make sure you can write a definition for these key terms.

abundance	atom	atomic number	aqueous	compound	electron
element	energy level	isotope	neutron	nucleus	orbit
product	proton	reactant	relative atomic mass		
relative charge	relative mass	shell			

Chapter 1 Atomic Structure And The Periodic Table

Jianjun Gao



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