

# 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

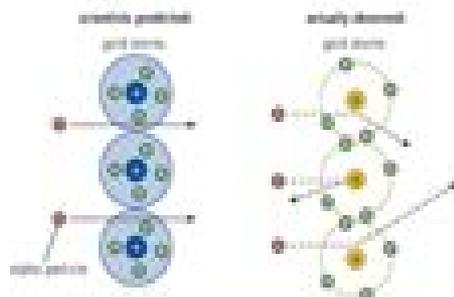
Scientists' experiments resulted in the discovery of sub-atomic charged particles. The first to be discovered were **electrons** - tiny, negatively charged particles.

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 an distance.



#### 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  $1 \times 10^{-10}$  m. Nuclei (plum of nucleus) are around 1000 times smaller than atoms and have a radius of around  $1 \times 10^{-14}$  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

**AN Whitehead**



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web nov 12 2021 prayer for virtual meetings dear lord we pray that you carry us through this meeting even though we are not all in the same room we pray for harmony during this meeting help us stay attentive and follow everything we do and say let us be as productive now as when we are together we pray that you end this pandemic so we can be

*prayer for a meeting* - Dec 28 2022

web through jesus christ our lord amen heavenly father thank you that you are gracious and compassionate slow to anger and abounding in love we enter your gates with thanksgiving today and we enter your courts with praise we glorify you for the countless ways you have blessed us we praise you for your great love

*prayers for successful meetings 15 powerful the pray warrior* - May 21 2022

web feb 10 2023 prayer for successful meeting in school isaiah 55 8 niv for my thoughts are not your thoughts neither are your ways my ways declares the lord powerful god we acknowledge the fact that you are greater than all it s by your grace that we are gathered here today lead us to the right path of your glory

**6 prayers for opening a meeting the prayer pocket** - Mar 31 2023

web jul 25 2023 below you will find these 6 prayers a short prayer for opening a meeting an opening prayer for teamwork an opening prayer to find solutions an opening prayer for direction an opening prayer to glorify god in all you do an opening prayer for good communication

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web oct 16 2023 15 prayers to open a meeting by solomon samuel october 16 2023 7 minute read key highlights hide 15 prayers to open a meeting prayers for guidance and wisdom 1 quick opening prayer 3 a prayer of gratitude prayers for events and gatherings 4 a prayer to open an event 5 for the spirit to work prayers for peace

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web apr 12 2021 dear heavenly father thank you for the gift of joy i pray i will show your love and joy in all my words and actions help me to bring comfort and peace through the sharing of your word amen short prayers for meetings dear god as we gather for meetings let each person be kind and compassionate let us show your love and glory

**21 short opening prayers for virtual meeting strength in prayer** - Mar 19 2022

web in this article we present prayers that you can use to open your virtual meetings with grace and intention let these words guide your virtual gatherings fostering a sense of togetherness and shared purpose 21 short opening prayers for a virtual meeting 1 prayer for unity and connection heavenly father

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web even if it s just a short opening prayer it can still be very powerful and demonstrate our devotion to the lord in this article we will examine the importance of opening prayers and look at some inspirational prayers for meetings

**7 guiding prayers for a meeting at work prays** - Feb 15 2022

web let us pray prayers prayers if you would like me to pray on your behalf play the video above and listen along get your prayer shared around prayer groups and holy places with the prayer submission prayer for a calm mind before a meeting dear god thank you for granting us the opportunity to have this meeting

*15 short powerful prayer for opening meeting* - Jun 21 2022

web lord bless our meeting with your wisdom and may your will be done in our deliberations in your holy name we pray amen inclusivity and unity a meeting opening prayer o god as we gather for this meeting we pray for inclusivity and unity help us to value and respect each person s contributions and perspectives

**10 best opening and closing prayers for meetings connectus** - Sep 24 2022

web jun 20 2016 here is a look at some great opening and closing prayers for meetings that will help encourage your continued commitment and dedication to the lord enter with thanksgiving prayer heavenly father thank you that you are gracious and compassionate slow to anger and abounding in love

**10 opening prayers for gatherings and meetings ibelieve** - Aug 24 2022

web jul 12 2023 an opening prayer for a church business meeting dear lord thank you for this dedicated group of people who have come together to serve you and this congregation thank you for your protection over our church your guiding presence and the provision to minister to a lost world forgive us for any wrongdoing and give us a clean heart

**prayers for meetings bless a gathering for god s work pray** - Apr 19 2022

web here is a collection of prayers for meetings of any kind business meetings sunday school meetings church or family meetings and prayer meetings opening prayer for meeting lord we are meeting today to conduct matters

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web 1 the importance of short prayers for meeting opening proverbs 16 3 2 setting the tone short prayers to begin meetings colossians 3 14 3 connecting with the divine meeting opening prayers james 1 5 4 brief and meaningful prayers for meeting kickoffs psalm 119 130 5 invoking guidance short prayers for meetings proverbs