

Extended Homework Task – Chemistry C1 and C2

Aiming for Grade 4

Name

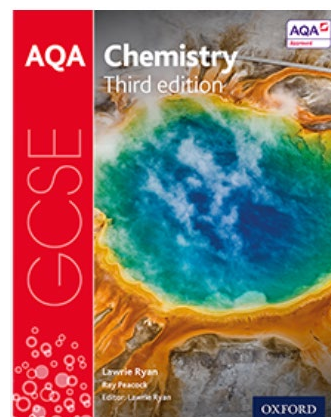
Please hand in a completed printed version at the end of the topic

The online text book access to support this homework can be accessed through your Kerboodle account at www.kerboodle.com.

The username is your first initial and sir name (no gap).

If you have not accessed the book before the password will be the same as your username. If you have logged on before you will have changed the password to your own choice.

Click onto the science 9-1 tile and then onto the digital book.



Resources to support this homework can be found in the online student book

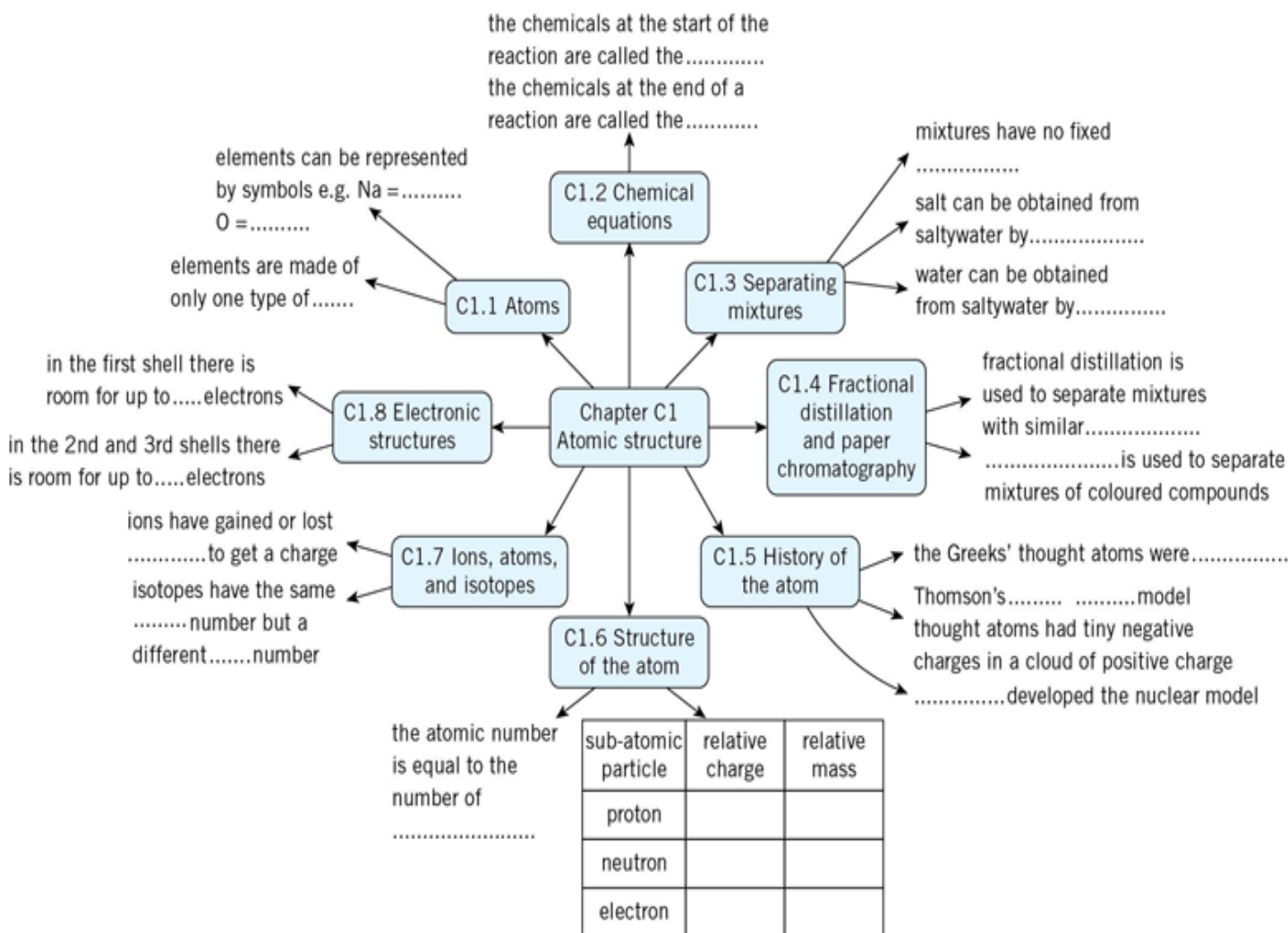
- **Atomic structure pages 4 to 21.**
- **The periodic table pages 22 to 35.**

C1 Atomic structure

The spider diagram on the following page shows the main ideas in this chapter in quite a lot of detail. The spider diagram is split into eight sections – one for each of the double page spreads in your student book.

Copy or complete the diagram to show the key information from this chapter. Spaces have been left for you to add the missing words.

Try to include some pictures and different colours in your spider diagram. Think about how the key ideas link together and try adding some arrows to link the topics together.



C2 The periodic table

Below is a set of revision cards showing the main ideas in this chapter. There is one card for each of the double page spreads in your student book. Complete each card by adding the missing words to show the key information from this chapter.

Try and include some of your own information to each card. Add pictures and use different colours to make the cards more interesting.

C2.1 Development of the periodic table	C2.2 Electronic structures and the periodic table
<p>Mendeleev placed the known _____ into a table. He left ____ for elements that hadn't been discovered and made detailed _____ about them.</p> <p>Mendeleev swapped the order of some elements so that elements with similar properties were in the same _____.</p>	<p>In the modern periodic table the elements are arranged in order of increasing _____.</p> <p>Metals are found in the middle and on the ____ of the periodic table. Non-metals are found on the _____ of the periodic table.</p> <p>The number of _____ in the outer shell of an atom shows the _____ of the periodic table an element belongs to.</p>
C2.3 Group 1 – the alkali metals	C2.4 Group 7 – the halogens
<p>Lithium, _____, sodium, _____, and potassium, _____, belong to Group 1.</p> <p>Group 1 metals are also known as the _____.</p> <p>The reactivity of Group 1 metals _____ down the group.</p> <p>Group metals react with water to make a metal hydroxide and _____</p>	<p>Fluorine, _____, chlorine, _____, bromine, _____, and iodine, _____, belong to Group 7.</p> <p>Group 7 is also known as the _____.</p> <p>Group 7 elements get _____ reactive down the group.</p> <p>Halogens undergo displacement reactions: Chlorine + potassium bromide → _____ + _____</p>
C2.5 Explaining trends	C2.6 The transition elements
<p>Group ____ metals get more reactive down the group.</p> <p>Group ____ non-metals get less reactive down the group.</p>	<p>The transition metals or _____ have typical metal properties. They also:</p> <ul style="list-style-type: none"> • Form _____ compounds • Are good _____ • Form _____ which have different charges e.g., Fe²⁺ and Fe³⁺

Building key skills

There are skills that you will need to build up to help you access the information in these units. To help you with these skills you can access myMaths programs or other maths resources.

C2 MyMaths: The periodic table



If your school has MyMaths, try looking at these activities that will support you in understanding the maths that is relevant to this chapter:

[Using standard form with very small numbers](#)

[Using standard form with very large numbers](#)

[Dividing by 10 and 100](#)

[Decimal place value](#)

[Introduction to ratios](#)