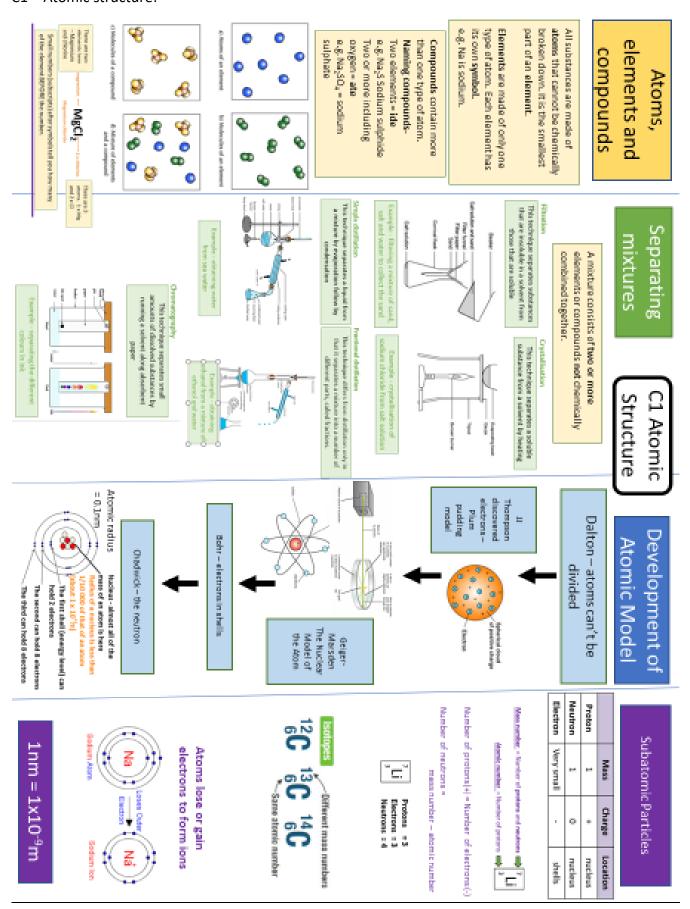
Year 10 Revision Homework Booklet: Chemistry

Name:				

Week commencing:	Topic of revision	Completed?
28 th March	Separating Mixtures Summarise the information from the revision mat into the space provided. Complete 5 self-quizzing questions in grid provided. Complete the past exam paper question.	
4 th April	The Periodic table Complete 8 self-quizzing questions in grid provided. Complete the past exam paper question.	
18 th April	EXAM	

C1 - Atomic structure:



Week 1: Separating mixtures

Subheading - Trigger word - Trigger word	
Focus on key words and definitions rath	ner than copying the text word for word.
nnlete 5 self-quiz questions using the inform	ation you have summarised above in the hox below
	ation you have summarised above in the box below.
nplete 5 self-quiz questions using the inform uestion	ation you have summarised above in the box below. Answer
	_

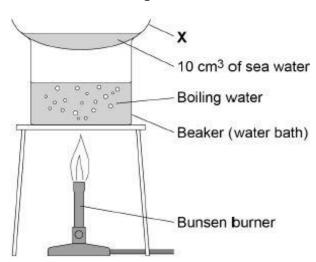
Summarise the above information from the separating mixtures section of the revision mat in the box below

Q1.

A student tested a sea water sample for dissolved solids.

Figure 1 shows the apparatus.

Figure 1



(a) What is apparatus **X** on **Figure 1**?

Tick one box.

Boiling tube	67 73
Condenser	
Funnel	
Watch glass	

(1)

(b) The student did the test four times.

The student calculated the mass of solid on apparatus **X** after heating.

The table below shows the student's results.

	Test 1	Test 2	Test 3	Test 4
Mass of solid in grams	0.12	0.29	0.14	0.15

Calculate the mean mass of solid.

Do not include the anomalous result in your calculation.

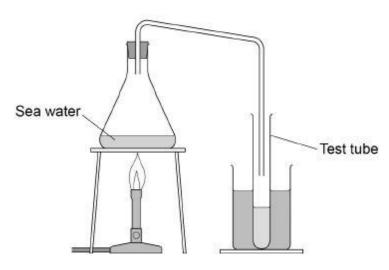
Give your answer to 2 significant figures.

Mean mass = _____ g

(3)

The student distilled a sample of sea water in the apparatus shown in Figure 2

Figure 2

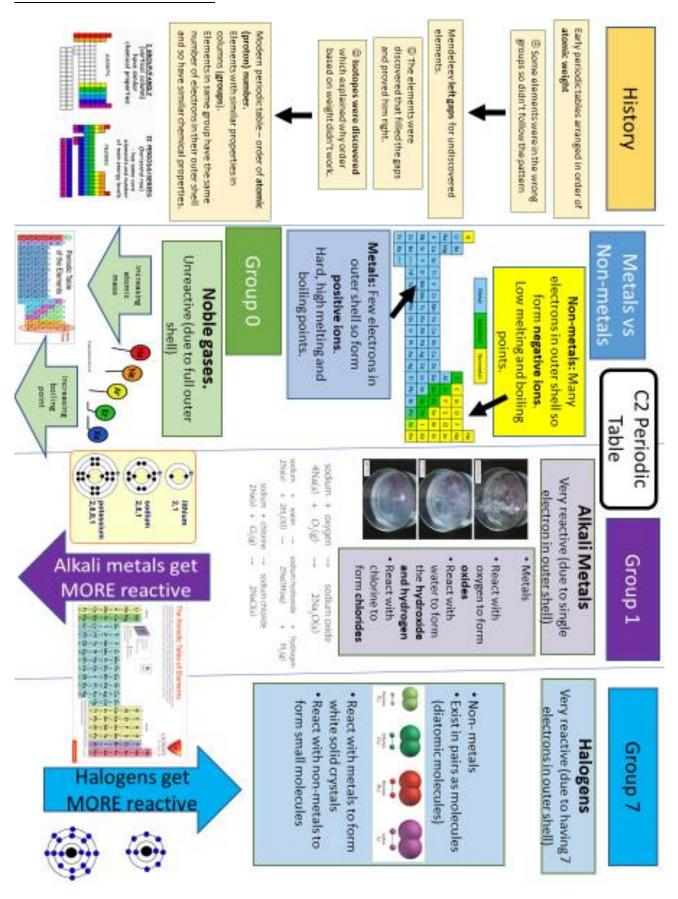


(c) What change of state is happening at the surface of the sea water in **Figure 2**?

(1)

(d)	Describe how the water in the test tube in Figure 2 is different from the sea	a water.	
(e)	Why does producing drinking water from sea water using distillation cost a money?	lot of	(1)
			(1)
		(Total 7 mar	rks)

Week 2: The Periodic Table



Complete 8 self-quiz questions using the information above in the boxes below.

Question	Answer

Complete the past exam paper question:

Q1.

This question is about the periodic table.

In 1864 John Newlands suggested an arrangement of elements.

Figure 1 shows the arrangement Newlands suggested.

Figure 1

	1	2	3	4	5	6	7
	Н	Li	Ве	В	С	N	0
	F	Na	Mg	AI	Si	Р	s
700	CI	к	Ca				77

(a) Give **two** differences between column 1 in **Figure 1** and Group 1 in the modern periodic table.

Use the periodic table to help you.

l._____

2.

(b) In 1869 Mendeleev produced his periodic table.

Complete the sentence.

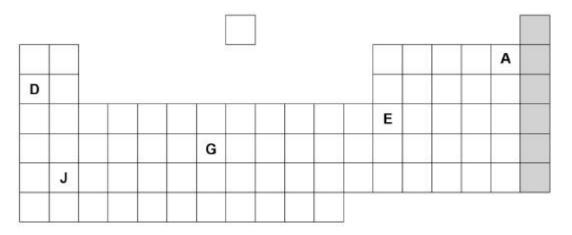
Choose the answer from the box.

insoluble	magnetic	undiscovered	unreactive
Mendeleev left g	gaps in his perio	odic table for elemer	nts that were
			_ •
How are the eler	ments ordered	in the modern period	dic table?
Tick one box.			
Atomic mass			
Atomic number			
Melting point			
Reactivity			

Figure 2 shows part of the modern periodic table.

Figure 2

(1)



Α	D	E	G	J	
odium is ar	n alkali metal	and is repre	sented by th	e letter	
ın element i	n group 3 is	represented	by the letter		
gaseous n	on-metal ele	ment is repre	esented by th	ne letter	
iauro 3 cha	ows the elect	ronic structu	re of an aton	n	
igule 3 sile	JWS THE EIECT		gure 3	11.	
		1 15	Electro	±11	
		***	Nucleu		
his element	t is in the sha	aded group o	n Figure 2 .		
Vhy is this e	element unre	active?			
lame the gr	oup of eleme	ents in the sh	aded columi	n on Figure 2 .	

Mark schemes

O	1	
•		

(a)	 any two from: hydrogen is in group 1 on Newlands table fluorine / chlorine / halogens are in group 1 on Newlands table alkali metals are in group 2 on Newlands table 		
	allow converse arguments relating to modern table allow lithium / sodium / potassium for alkali metals	2	
(b)	undiscovered	1	
(c)	atomic number	1	
(d)	D	1	
	E	1	
	A must be in this order	1	
(e)	has a complete outer shell of electrons allow because has a stable arrangement of electrons		
		1	
(f)	noble gases	1	[9]