Which of these things is an element?

A salt B water

C oxygen D air

Which of these metals is not a pure element?

A gold

B copper

C silver

D bronze

The smallest part of an element is called:

A an atom. B a molecule.

C a compound. D an ion.

An element is something that:

A can be split up by a chemical reaction.

B cannot be split up by a chemical reaction.

C is made up of different kinds of atom.

D is a mixture of atoms and molecules.

An atom is:

A the smallest particle that can exist.

B a group of particles that are all the same.

C the smallest particle of a compound that exists under normal conditions.

D the smallest particle of an element that exists under normal conditions.

The number of types of atom in a compound is:

A only one.

B one or two.

C two or more.

D three or more.



P2 – Chapter 6 revision
How many different elements are there in the compound with the formula NH3? A one B two C three D four
 An element is a substance that: is made of two types of atoms. cannot be broken down into other substances. contains water. is a metal used in kettles.
 Identify the list that contains only non-metals. A. Oxygen, carbon, lithium B. Helium, hydrogen, fluorine C. Lithium, magnesium, zinc D. Helium, hydrogen, sodium
The correct way to write the chemical symbol for sodium is A. NA B. Na C. na D. N@
Complete this word equation: copper + oxide ->

A.	copper sulphate

- B. copper oxide
- C. copper oxinate
- D. copper carbonate



Below shows a reaction forming a compound. What is true about the reaction?

calcium (Ca) + oxygen (O₂)
$$\rightarrow$$
 calcium oxide (CaO)

- A. The properties of the elements are the same as the compound formed.
- B. The properties of compound are same as properties of elements.
- The properties of elements are different from the properties of compound formed.
- D. The elements can be easily separated from the compound.

Magnesium oxide (MgO) is dissolved in water. Below shows the equation of the reaction. What best describes the properties of the solution formed?

Magnesium oxide (MgO) + Water (H2O) → Magnesium hydroxide (MgOH)

- A. strong acid
- B. neutral

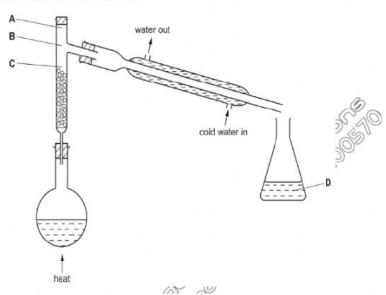
Base = alkaline

- C. strong base
- D. weak acid

M/J 15/P12/Q1, M/J 15/P11/Q1, O/N 10/P12/Q3, O/N 10/P11/Q5

The fractional distillation apparatus shown is being used to separate a mixture of two liquids. A thermometer is missing from the apparatus.

Where should the bulb of the thermometer be placed?





B electrolysis

D fractional distillation

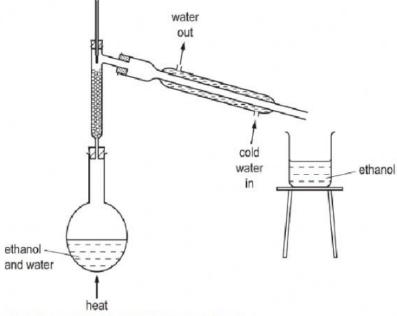
C filtration

	13/P12/Q2	h = 111			_ 41_			
A	ich process involves crystallisation	The state of the s	liquid and listillation	condensin	-	e vapour? evaporation	D	filtration
	J 13/P12/Q1 lich mixture could be	st be sep	parated by u	ısing a sep		The second secon		
A	oil and sand	1	1	C		sodium chloride an	d san	d
В	oil and water			D		sodium chloride an	d wate	er 🥳
Ro	ock salt is a mixture of s	and and s	odium chlorid	e.				201
So	odium chloride is soluble	in water l	out not in hex	anc.				
Se	and is insoluble in both	water and l	hexane.					
W	hat is required to separ	ate the san	d from the so	odium chloric	le?			
	1 filter paper							
	2 fractionating	column						
	3 hexane							
	4 water							
A	1 and 3 B 1	and 4	C 2 ar	nd 3	D	2 and 4		
W	hich statement de	scribes	a chemic	al propert	уо	f aluminium oxid	e, A <i>l</i>	₂ O ₃ ?
Α	It reacts with ac	ids but	not with b	ases.				
В	It reacts with ac	ids and	bases.					
C	It reacts with ba	ses but	not with a	acids.				
D	It reacts with wa	ater.						
W	hich method shou	ıld be us	sed to sep	arate a n	nixt	ure of two liquids	s?	
Α	crystallisation							



O/N 15/P12/Q1

The diagram shows the fractional distillation of an aqueous solution of ethanol.



Which statement explains why ethanol is collected as the distillate?

- A Ethanol has a higher boiling point than water.
- B Ethanol has a higher melting point than water.
- C Ethanol has a lower boiling point than water.
- D Ethanol has a lower melting point than water.
 - 3 A student separates salt from a mixture of salt and sand.

What is the correct order of steps for the student to take?

- A filter → evaporate → shake with water
- B filter → shake with water → evaporate
- C shake with water → evaporate → filter
- D shake with water → filter → evaporate



M/J 14/P12/Q1

Which process is suitable for obtaining the water from an aqueous solution of sugar?

A crystallisation

C filtration

B distillation

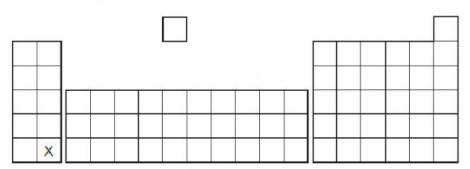
D use of a separating funnel

An element E is burned in air. A white solid oxide is formed.

The oxide is tested with damp red litmus paper. The paper turns blue.

What is element E?

- A calcium
- B carbon
- C iodine
- **D** sulfur
- 22 The diagram shows the position of an element X in the Periodic Table.



What is the correct classification of element X and its oxide?

	X	oxide of X
A	metal	acidic
В	metal	basic
C	non-metal	acidic
D	non-metal	basic

Substances can be pure or they can be mixtures.



Which of these is a mixture?

- A. Oxygen
- B. Carbon dioxide
- C. Gold
- D. Air

Which of the following separation methods relies on differences in boiling points?

- A. Fractional distillation and simple distillation
- B. Fractional distillation and filtration
- C. Simple distillation and paper chromatography
- D. Filtration and paper chromatography

What is the chemical symbol for the element mercury?

- A. Hg
- B. He
- C. Me
- D. M

The reactions of four different oxides W, X, Y and Z are shown. W reacts with hydrochloric acid but not sodium hydroxide. X reacts with both hydrochloric acid and sodium hydroxide. Y does not react with either hydrochloric acid or sodium hydroxide. Z reacts with sodium hydroxide but not hydrochloric acid. Which row shows the correct types of oxide?

	Acidic	Basic	Amphoteric	Neutral	
A.	W	Z	Х	Υ	
B.	Х	Y	W	Z	
C.	Z	Х	Y	W	
D.	Z	W	X	Y	

How many different types of elements are in a substance that has the formula N2O4?

- A. 6
- **B**. 4
- C. 2
- **D**. 3

What is the name of the compound with the formula MgBr₂?



- A. Magnesium dibromide
- B. Magnesium bromine
- C. Magnesium bromide
- D. Monomagnesium dibromide

