



**Science Revised Syllabus
Junior Certificate
Higher Level**

**Past Exam Questions on
C Elements, Compounds and Mixtures**

Q4 Part (d) 2013

- (d) The writer Jules Verne (1828-1905) said “Water decomposed into its elements will be the fuel of the future”. The photograph shows a car that uses hydrogen as a fuel.



- (i) How can hydrogen be produced from water?

How? _____

- (ii) Why is the exhaust emission from such a car environmentally safe?

Why? _____

Q6 Part (a) 2013

- (a)(i) Distinguish between an element and a compound. (6)

Element _____

Compound _____

- (ii) Iron and sulfur react to produce iron sulfide.
Complete the table below. (9)

Property	Iron	Sulfur	Iron sulfide
Colour			
Attracted by magnet			

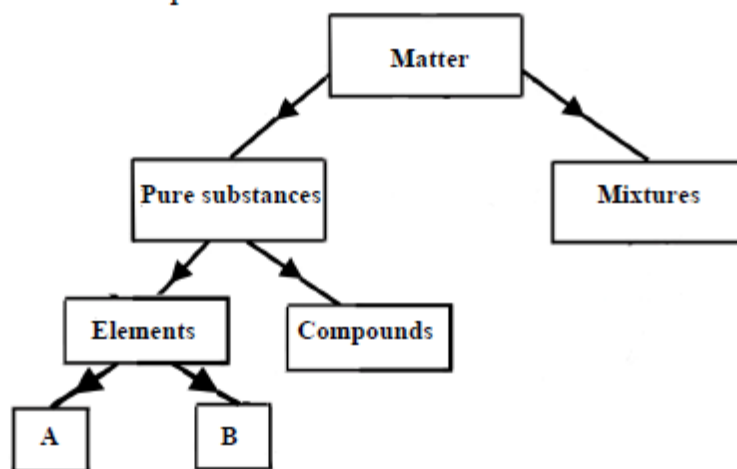
Q4 Part (g) 2012

(g) Name two non-metallic elements.

1 _____ 2 _____

Q5 Part (b) 2011

(b) Matter is the 'stuff' that all things are made of, including us. The diagram shows how some types of matter are classified. The diagram is not complete.



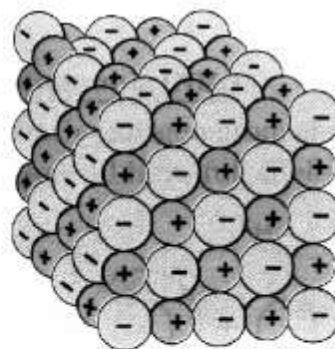
(i) Distinguish between elements and compounds. (6)

(ii) Elements are often divided into two sub-groups. Name these two sub-groups. (6)

_____ & _____

Q6 Part (b) 2009

(b) The diagram shows sodium ions (+) and chloride ions (-) in part of a crystal of table salt, sodium chloride.



(i) How are *sodium ions* and *chloride ions* formed from their atoms? (6)

How? _____

(ii) What *force* holds the ions together in sodium chloride? (3)

(iii) Name *one other* compound that is *composed of ions*. (3)
