

AQA Knowledge test Unit 1 Chemistry C1

C1.1 The fundamental Ideas in Chemistry

C1.1.1 Atoms

1. What is an atom?
2. What is an element?
3. Match the name of the element with the symbol

Element	Symbol
Oxygen	O
Sodium	Na
HYDROGEN	H
LITHIUM	Li
Copper	Cu
Potassium	K
ARGON	Ar
CALCIUM	Ca

4. Draw and label the structure of an atom. Ensure that you include the following key words:

Nucleus Protons Neutrons Electrons

5. Complete the table below

Name of Particle	Charge	Mass
Proton	+	1
Neutron	NO CHARGE	1
Electron	-	NEGLIGIBLE

6. Why do atoms have no overall electrical charge?

7. What does the atomic number tell you?

8. What does the mass number tell you?

9. Copy and complete the table

Element	Symbol	Atomic Number	Mass Number	Number of Protons	Number of Neutrons	Number of Electrons
Hydrogen	H	1	1	1	0	1
HELIUM	He	2	4	2	2	2
LITHIUM	Li	3	7	3	4	3
BERYLLIUM	Be	4	9	4	5	4
BORON	B	5	11	5	6	5

10. Draw diagrams to show the electronic structure of the elements above.

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