

Basic Atomic Structure

Name : _____

- 1 Name the three particles of the atom and their respective charges.

Particle	Charge type	Charge

- 2 The number of protons in one atom of an element determines the atom's _____ and the number of _____ determines the charge of the element.
- 3 The _____ tells you the number of protons in one atom of an element. It also tells you the number of _____ in a neutral atom of that element.
- 4 No two different elements will have the _____ atomic number.
- 5 The _____ of an element is the average mass of an element's naturally occurring atom or _____ taking into account the mass of each isotope.
- 6 The _____ of an element is the total number of protons and _____ in the nucleus of the atom.
- 7 Give the symbol and the number of protons in one atom of

Lithium _____

Bromine _____

Iron _____

Copper _____

Oxygen _____

Mercury _____

Krypton _____

Helium _____

- 8 Give the symbol and the number of electrons in one atom of

Uranium _____

Carbon _____

Boron _____

Fluorine _____

Chlorine _____

Europium _____

Barium _____

Bismuth _____

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Name : _____

Answers

- 1 Name the three particles of the atom and their respective charges.

Particle	Charge type	Charge
Proton	Positive	+1
Neutron	Neutral	0
Electron	Negative	-1

- 2 The number of protons in one atom of an element determines the atom's identity and the number of electrons determines the charge of the element.
- 3 The atomic number tells you the number of protons in one atom of an element. It also tells you the number of electrons in a neutral atom of that element.
- 4 No two different elements will have the same atomic number.
- 5 The atomic mass of an element is the average mass of an element's naturally occurring atom or isotopes taking into account the mass of each isotope.
- 6 The mass number of an element is the total number of protons and neutrons in the nucleus of the atom.
- 7 Give the symbol and the number of protons in one atom of

Lithium Li 3

Bromine Br 35

Iron Fe 26

Copper Cu 29

Oxygen O 8

Mercury Hg 80

Krypton Kr 36

Helium He 2

- 8 Give the symbol and the number of electrons in one atom of

Uranium Ur 92

Carbon C 6

Boron B 3

Fluorine F 9

Chlorine Cl 17

Europium Eu 63

Barium Ba 56

Bismuth Bi 83