

Atomic Structure & Chemical Bonding

Interactive E-Worksheet · Read carefully and complete every task

Name :

Class :

Day / Date :

A True or False

Choose the correct answer

- Protons are found inside the nucleus and carry a positive charge.
- Neutrons carry a negative charge.
- In a neutral atom, the number of electrons equals the atomic number (Z).
- Mass number (A) is the sum of protons and electrons.
- An ionic bond forms by the sharing of electron pairs.

TRUE

FALSE

TRUE

FALSE

TRUE

FALSE

TRUE

FALSE

TRUE

FALSE

B Matching

Draw a line from each term to its meaning

1 Proton

A Number of protons + neutrons

2 Neutron

B Negative particle in the electron shell

3 Electron

C Positive particle in the nucleus

4 Atomic number (Z)

D Number of protons in an atom

5 Mass number (A)

E Neutral particle in the nucleus

C Short Answer

Write your answer on the line

- What is the charge of a neutron?
- Who discovered the electron?
- How many neutrons are in $^{23}_{11}\text{Na}$?
- How many valence electrons follow the octet rule?
- What bond forms when Na gives an electron to Cl?

D Drag and Drop

Drag each word into the correct box

Nucleus

Electrons

Duplet

Covalent

Ionic

- The dense center of an atom is called the .
- Negative particles that move in shells are .
- Helium follows the rule (2 valence electrons).
- Sharing electron pairs forms a bond.
- NaCl is held together by an bond.