

Name _____

The Magical Dance of Atoms: How They Combine to Form Molecules

Short Answer

1. Describe the structure of an atom and the role of its subatomic particles in forming molecules.
2. Explain the difference between covalent and ionic bonds, providing an example of each.
3. How does the octet rule guide the formation of stable molecules through covalent bonding?
4. Provide an example of a molecule that is essential for our daily lives and explain its significance.
5. Why is the ability of atoms to combine in various ways to create diverse molecules important for the existence of the world as we know it?

