

Name _____

The Electrons that Make the Magic Happen: The Role of Valence Electrons in Chemical Bonding

Short Answer

1. Describe the role of valence electrons in chemical bonding.
2. Explain the difference between covalent and ionic bonds in terms of valence electrons.
3. Why are elements in the same group on the periodic table said to have similar chemical behavior related to valence electrons?
4. What is the valence electron configuration of an element in Group 17 of the periodic table?
5. Can you give an example of a molecule formed by a covalent bond and describe how valence electrons are involved?

