

8.2**THE NATURE OF COVALENT BONDING****Section Review****Objectives**

- State a rule that usually tells how many electrons are shared to form a covalent bond
- Describe how electron dot formulas are used
- Predict when two atoms are likely to be joined by a double or a triple covalent bond
- Distinguish between a single covalent bond and other covalent bonds
- Describe how the strength of a covalent bond is related to its bond dissociation energy
- Describe how resonance structures explain bonding
- Identify some exceptions to the octet rule

Vocabulary

- | | | |
|------------------------|----------------------------|----------------------------|
| • single covalent bond | • double covalent bonds | • polyatomic ion |
| • structural formulas | • triple covalent bonds | • bond dissociation energy |
| • unshared pairs | • coordinate covalent bond | • resonance structures |

Part A Completion

Use this completion exercise to check your understanding of the concepts and terms that are introduced in this section. Each blank can be completed with a term, short phrase, or number.

When atoms share electrons to gain the 1 configuration 1. _____
 of a noble gas, the bonds formed are 2. A 3 pair of 2. _____
 valence electrons constitutes a 4 covalent bond. Pairs of 3. _____
 valence electrons that are not shared between atoms are called 4. _____
5. Sometimes two or three pairs of electrons may be shared 5. _____
 to give 6 covalent bonds. In some cases, only one of the 6. _____
 atoms in a bond provides the pair of bonding electrons; this is a 7. _____
7 8 is required to break covalent bonds between 8. _____
 atoms. The total energy required to break the bond between two 9. _____
 covalently bonded atoms is known as the 9. 10. _____

When it is possible to write two or more valid electron dot formulas for a molecule or ion, each formula is referred to as a 10.

The Nature Of Covalent Bonding Worksheet

M Mosston



The Nature Of Covalent Bonding Worksheet:

Whispering the Techniques of Language: An Emotional Journey through **The Nature Of Covalent Bonding Worksheet**

In a digitally-driven earth where monitors reign supreme and instant connection drowns out the subtleties of language, the profound secrets and emotional subtleties concealed within phrases frequently go unheard. Yet, situated within the pages of **The Nature Of Covalent Bonding Worksheet** a fascinating fictional value sporting with raw feelings, lies a fantastic quest waiting to be undertaken. Composed by a talented wordsmith, that enchanting opus invites readers on an introspective trip, delicately unraveling the veiled truths and profound impact resonating within ab muscles fabric of every word. Within the mental depths of the emotional evaluation, we shall embark upon a heartfelt exploration of the book is core themes, dissect their charming publishing model, and succumb to the effective resonance it evokes heavy within the recesses of readers hearts.

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