



# COVALENT BONDING

## Practice Problems

Do your answers to these very practice problems.

### SECTION 8.1 MOLECULAR COMPOUNDS

1. Draw a molecular formula for each of the following compounds.

- a. Silicon tetrachloride      b. Nitrogen dioxide      c. Hydrogen peroxide  
d. Carbon disulfide      e. Sulfur dioxide

2. Write the formula for the following molecular compounds.

- a. Carbon monoxide      b. Dinitrogen pentoxide      c. Hydrogen cyanide  
d. Nitrogen dioxide      e. Sulfur trioxide

3. Draw the Lewis structure for each of the following molecular compounds.

a. Dichloromethane      b. Carbon tetrachloride      c. Hydrogen peroxide      d. Hydrogen cyanide      e. Hydrogen sulfide      f. Hydrogen chloride      g. Hydrogen bromide      h. Hydrogen iodide

4. Draw the Lewis structure for each of the following molecular compounds. Label each atom as being an electrophile or nucleophile.

### SECTION 8.2 THE NATURE OF COVALENT BONDING

1. Draw the Lewis structure for hydrogen fluoride, HF.



2. Draw the Lewis structure for hydrogen peroxide,  $\text{H}_2\text{O}_2$ .



3. Draw the Lewis structure for carbon dioxide,  $\text{CO}_2$ .



4. Draw the Lewis structure for acetylene,  $\text{C}_2\text{H}_2$ .

5. Draw the Lewis structure for each of the following compounds. Label each atom as being an electrophile or nucleophile.



6. Draw the Lewis structure for each of the following compounds.

### SECTION 8.3 BONDING IN THE LARSEN

1. Draw the Lewis structure for each of the following compounds. Label each atom as being an electrophile or nucleophile.

2. Draw the Lewis structure for each of the following compounds. Label each atom as being an electrophile or nucleophile.

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**John S. Phillips, Cheryl Wistrom**



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*Chemistry* John S. Phillips, Cheryl Wistrom, 2000

The Top Books of the Year Chapter 8 Covalent Bonding Practice Problems Answers Bing The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous captivating novels captivating the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the captivating narratives that have enthralled audiences this year.

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Discover the Magic : Delia Owens' "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting.

These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered.

The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts.

The Secret History is a brilliant and gripping novel that will keep you speculating until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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