

# Chemistry

## Scarsdale Alternative School

### **Chapter 8: Covalent Bonding**

#### **Essential and Key Questions**

| Section | Page |
|---------|------|
| 8       | 220  |
| 8.1     | 222  |
| 8.2     | 226  |
| 8.3     | 240  |
| 8.4     | 247  |

#### **Vocabulary**

1. Covalent bond
2. Molecule
3. Diatomic molecule
4. Molecular compound
5. Molecular formula
6. Single covalent bond
7. Structural formula
8. Unshared pair
9. Double covalent bond
10. Triple covalent bond
11. Polyatomic ion
12. Bond dissociation energy
13. Resonance structure
14. Molecular orbital bonding orbital
15. Sigma bond
16. Pi bond
17. Tetrahedral angle
18. VSEPR theory
19. Nonpolar covalent bond
20. Polar covalent bond
21. Polar bond
22. Polar molecule
23. Dipole
24. Van der Waals forces
25. Dipole interaction
26. Dispersion force
27. Hydrogen bond
28. Network solid

#### **Reading**

Pages: 220-255

#### **Homework**

Page 256-259: 40, 41, 44, 45, 46, 49, 51, 52, 54, 58, 60, 64, 65, 66, 68, 70, 73, 74, 77, 79