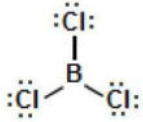
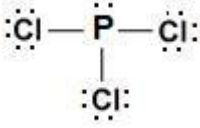
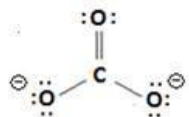
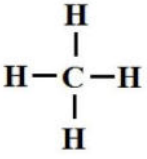
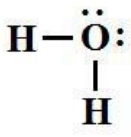
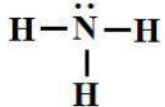
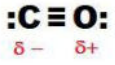
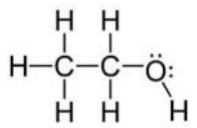


For each of the following molecules: **1)** write the name, **2)** write the formula, **3)** specify VSEPR shape(s), and **4)** state bond angle(s). **EXTRA CREDIT:** Label the intermolecular force(s) present.

|                                                                                     |                                                                                     |                                                                                   |                                                                                       |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Name _____<br>Formula _____<br>Bond Angle _____<br>VSEPR Shape _____<br>IMF _____   |    | Name _____<br>Formula _____<br>Bond Angle _____<br>VSEPR Shape _____<br>IMF _____ |    |
| Name _____<br>Formula _____<br>Bond Angle _____<br>VSEPR Shape _____<br>IMF _____   |    | Name _____<br>Formula _____<br>Bond Angle _____<br>VSEPR Shape _____<br>IMF _____ |    |
| Name _____<br>Formula _____<br>Bond Angle _____<br>VSEPR Shape _____<br>IMF _____   |  | Name _____<br>Formula _____<br>Bond Angle _____<br>VSEPR Shape _____<br>IMF _____ |  |
| Name _____<br>Formula _____<br>Bond Angle _____<br>VSEPR Shape _____<br>IMF _____   |  | Name _____<br>Formula _____<br>Bond Angle _____<br>VSEPR Shape _____<br>IMF _____ |  |
| Name _____<br>Formula _____<br>Bond Angle _____<br>VSEPR Shape _____<br>IMF _____   |                                                                                     |                                                                                   |                                                                                       |
|  |                                                                                     | Bond Angle _____<br>VSEPR Shape _____<br>IMF _____                                |                                                                                       |

|  |
|--|
|  |
|  |

For each of the following molecules: **1)** write the name, **2)** draw the Lewis Dot Structure, **3)** indicate the VSEPR shape(s), and **4)** state bond angle(s).  
**EXTRA CREDIT:** Label the intermolecular force(s) present.

|                        |                                    |
|------------------------|------------------------------------|
| <b>H<sub>2</sub>S</b>  | <b>BH<sub>3</sub></b>              |
| <b>CO<sub>2</sub></b>  | <b>SO<sub>4</sub><sup>-2</sup></b> |
| <b>CCl<sub>4</sub></b> | <b>PCl<sub>3</sub></b>             |

|                      |                                                   |
|----------------------|---------------------------------------------------|
|                      |                                                   |
| <b>O<sub>2</sub></b> | <b>CH<sub>3</sub>CH<sub>2</sub>CH<sub>3</sub></b> |

For each of the following molecules: **1)** write the name, **2)** draw the Lewis Dot Structure, **3)** indicate the VSEPR shape(s), and **4)** state bond angle(s).  
**EXTRA CREDIT:** Label the intermolecular force(s) present.

|                        |                                     |
|------------------------|-------------------------------------|
| <b>PBr<sub>3</sub></b> | <b>CH<sub>2</sub>Cl<sub>2</sub></b> |
| <b>HCl</b>             | <b>CF<sub>4</sub></b>               |
| <b>CO</b>              | <b>H<sub>2</sub>Se</b>              |

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|                                    |                        |
|------------------------------------|------------------------|
|                                    |                        |
| <b>NH<sub>4</sub><sup>+1</sup></b> | <b>BCl<sub>3</sub></b> |
|                                    |                        |

For each of the following molecules: **1)** write the name, **2)** draw the Lewis Dot Structure, **3)** indicate the VSEPR shape(s), and **4)** state bond angle(s).  
**EXTRA CREDIT:** Label the intermolecular force(s) present.

|                                       |                                    |
|---------------------------------------|------------------------------------|
| <b>BH<sub>3</sub></b>                 | <b>PCl<sub>3</sub></b>             |
|                                       |                                    |
| <b>CH<sub>3</sub>CH<sub>2</sub>OH</b> | <b>CO<sub>3</sub><sup>-2</sup></b> |
|                                       |                                    |
| <b>N<sub>2</sub></b>                  | <b>H<sub>2</sub>O</b>              |
|                                       |                                    |

|     |    |
|-----|----|
|     |    |
| HBr | CO |

For each of the following molecules: **1)** write the name, **2)** draw the Lewis Dot Structure, **3)** indicate the VSEPR shape(s), and **4)** state bond angle(s).  
**EXTRA CREDIT:** Label the intermolecular force(s) present.

|                  |                 |
|------------------|-----------------|
| F <sub>2</sub>   | CO <sub>2</sub> |
| H <sub>2</sub> O | NH <sub>3</sub> |

Version \_\_\_\_

|                                      |                                  |
|--------------------------------------|----------------------------------|
| <b><math>\text{PO}_4^{-3}</math></b> | <b><math>\text{CH}_4</math></b>  |
| <b><math>\text{BF}_3</math></b>      | <b><math>\text{CCl}_4</math></b> |

For each of the following molecules: **1)** write the name, **2)** draw the Lewis Dot Structure, **3)** indicate the VSEPR shape(s), and **4)** state bond angle(s).  
**EXTRA CREDIT:** Label the intermolecular force(s) present.

|                                  |                                      |
|----------------------------------|--------------------------------------|
| <b><math>\text{CCl}_4</math></b> | <b><math>\text{NO}_3^{-1}</math></b> |
|----------------------------------|--------------------------------------|

**Unit 6 VSEPR Quiz**

Name \_\_\_\_\_ Block # \_\_\_\_\_

Version \_\_\_\_

|                        |                         |
|------------------------|-------------------------|
| <b>BH<sub>3</sub></b>  | <b>H<sub>2</sub>S</b>   |
| <b>PCl<sub>3</sub></b> | <b>CH<sub>3</sub>OH</b> |
| <b>O<sub>2</sub></b>   | <b>CO</b>               |