

Name\_\_\_\_\_

Period\_\_\_\_\_

**Lewis Dots #3**  
**Worksheet on Dipole Moments**

Draw the Lewis Dot structures for the following 20 molecules and ions. Identify the geometry type (AB<sub>2</sub> for example) and their molecular shape (linear for example). Then draw arrows over the molecules to illustrate the individual polarity of each bond. Identify if the molecule has a net dipole moment, meaning it is polar.

1) H<sub>2</sub>2) I<sub>2</sub>

Type:  
Shape:  
Dipole Moment:

Type:  
Shape:  
Dipole Moment:

3) BeH<sub>2</sub>4) BCl<sub>3</sub>

Type:  
Shape:  
Dipole Moment:

Type:  
Shape:  
Dipole Moment:

5) CH<sub>4</sub>6) NH<sub>3</sub>

Type:  
Shape:  
Dipole Moment:

Type:  
Shape:  
Dipole Moment:

7) H<sub>2</sub>O8) PCl<sub>5</sub>

Type:  
Shape:  
Dipole Moment:

Type:  
Shape:  
Dipole Moment:

9)  $\text{CO}_2$

Type:  
Shape:  
Dipole Moment:

11)  $\text{N}_2$

Type:  
Shape:  
Dipole Moment:

13)  $\text{PH}_3$

Type:  
Shape:  
Dipole Moment:

15)  $\text{BI}_3$

Type:  
Shape:  
Dipole Moment:

17)  $\text{SiCl}_4$

Type:  
Shape:  
Dipole Moment:

10)  $\text{O}_2$

Type:  
Shape:  
Dipole Moment:

12)  $\text{CF}_4$

Type:  
Shape:  
Dipole Moment:

14)  $\text{SF}_6$

Type:  
Shape:  
Dipole Moment:

16)  $\text{PF}_3$

Type:  
Shape:  
Dipole Moment:

18)  $\text{SCl}_4$

Type:  
Shape:  
Dipole Moment: