Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Lewis Structures Worksheet**

**Part 1 – For each formula, give the h, n, s, b, nbe (except for the octet exceptions), and then draw the correct Lewis Structure**

**Part 2 – For each Lewis Structure, give the correct molecular shape**

**Part 3 – Determine the molecular polarity**

**Set A:**

1. HCl 5. SiH4

Shape:

Polarity:

Shape:

Polarity:

2. Cl2 6. SCHCl

Shape:

Polarity:

Shape:

Polarity:

3. SCS 7. C4H10

Shape:

Polarity:

Shape:

Polarity:

4. C2H2 8. N2

Shape:

Polarity:

Shape:

Polarity:

**Set B:**

9. N2H4 15. NO+

Shape:

Polarity:

Shape:

Polarity:

10. ONCl 16. BH4-

Shape:

Polarity:

Shape:

Polarity:

11. OSiH2  17. HCO3-

Shape:

Polarity:

Shape:

Polarity:

12. HCN 18. CH3CO2-

Shape:

Polarity:

Shape:

Polarity:

13. Cl2O 19. BrO3-

Shape:

Polarity:

Shape:

Polarity:

14. CH3COOH 20. PH4+

Shape:

Polarity:

Shape:

Polarity:

21. AsO3- 27. SO42-

Shape:

Polarity:

Shape:

Polarity:

22. ClO2-  28. PH5

Shape:

Polarity:

Shape:

Polarity:

**Set C:** 29. HSO3-

Shape:

Polarity:

23. Cl3PO

Shape:

Polarity:

Shape:

Polarity:

24. BeH2 30. O2SOH-

Shape:

Polarity:

25. BF3 31. NO2-

Shape:

Polarity:

Shape:

Polarity:

26. SF6 32. CO32-

Shape:

Polarity:

Shape:

Polarity: