

## Lewis Structure Practice Problems (Podcasts 5, 6, 7); SC1d, SC3e



- Draw the Lewis Structures
- Determine the shape
- Determine the polarity of the molecule

You will need to complete these on a separate sheet of paper and clearly label and include all three of the criteria for #1-26.

- |                                   |                                   |
|-----------------------------------|-----------------------------------|
| 1. HCl                            | 21. CO <sub>2</sub>               |
| 2. Br <sub>2</sub>                | 22. CO                            |
| 3. SeBr <sub>2</sub>              | 23. I <sub>2</sub>                |
| 4. CF <sub>4</sub>                | 24. CO <sub>3</sub> <sup>2-</sup> |
| 5. PI <sub>3</sub>                | 25. SO <sub>2</sub>               |
| 6. O <sub>2</sub>                 | 26. O <sub>3</sub>                |
| 7. N <sub>2</sub>                 |                                   |
| 8. H <sub>2</sub>                 |                                   |
| 9. OI <sub>2</sub>                |                                   |
| 10. CS <sub>2</sub>               |                                   |
| 11. SiBr <sub>4</sub>             |                                   |
| 12. F <sub>2</sub>                |                                   |
| 13. HCN                           |                                   |
| 14. NH <sub>4</sub> <sup>+</sup>  |                                   |
| 15. NO <sub>2</sub> <sup>-</sup>  |                                   |
| 16. SO <sub>3</sub>               |                                   |
| 17. SO <sub>4</sub> <sup>2-</sup> |                                   |
| 18. NO <sub>3</sub> <sup>-</sup>  |                                   |
| 19. PO <sub>3</sub> <sup>3-</sup> |                                   |
| 20. CN <sup>-</sup>               |                                   |