

Chapter 16

1. What is a covalent bond?
2. What is a single covalent bond?
3. What is an unshared pair?
4. What is a double covalent bond? Triple?
5. Draw the structure of CO_2 .
6. Draw the structure of NO_2 .
7. Draw the structure of NH_3 .
8. What is VSEPR Theory?
9. What is the shape of methane? Give the formula, name and a picture.
10. What is the shape of ammonia? Give the formula, name and a picture.

11. What is a non-polar compound?

12. What is a polar compound?

13. What is a polar bond?

14. What is a polar molecule?

15. What is a hydrogen bond?

16. Would CO_2 be polar or nonpolar? Why?

17. Is water polar or nonpolar?

18. What periodic property determines if a bond will be polar or nonpolar? Why?