

Modeling Covalent Compounds

For each compound, decide which color will represent each element. Draw the Lewis Dot structure for the compound, then make the model. Describe the shape of the compound and name the compound.

Compound	Lewis Dot Structure	Colors used for each element	Shape of Compound	Name of Compound
NI_3				
CO_2				
CF_4				
SbBr_3				
BCl_3				
SBr_2				
CH_2O				Formaldehyde

Naming Covalent Compounds Worksheet

Write the formulas for the following covalent compounds:

- 1) antimony tribromide _____
- 2) hexaboron silicide _____
- 3) chlorine dioxide _____
- 4) hydrogen iodide _____
- 5) iodine pentafluoride _____
- 6) dinitrogen trioxide _____
- 7) ammonia _____
- 8) phosphorus triiodide _____

Write the names for the following covalent compounds:

- 9) P_4S_5 _____
- 10) O_2 _____
- 11) SeF_6 _____
- 12) Si_2Br_6 _____
- 13) SCl_4 _____
- 14) CH_4 _____
- 15) B_2Si _____
- 16) NF_3 _____