

Covalent Bonding

Name _____

Date _____

Write the formula for each of the following:

carbon disulphide	<u>CS₂</u>	carbon tetraiodide	<u>CI₄</u>
silicon dioxide	<u>SiO₂</u>	nitrogen disulphide	<u>NS₂</u>
boron trichloride	<u>BCl₃</u>	carbon dioxide	<u>CO₂</u>
oxygen difluoride	<u>OF₂</u>	silicon tetrachloride	<u>SiCl₄</u>
nitrogen monoxide	<u>NO</u>	carbon monoxide	<u>CO</u>

Write the name for each of the following:

CCl ₄	<u>carbon tetrachloride</u>	SiBr ₄	<u>silicon tetrabromide</u>
SiO ₂	<u>silicon dioxide</u>	SI ₂	<u>sulphur diiodide</u>
N ₂ O	<u>dinitrogen monoxide</u>	PCl ₃	<u>phosphorous trichloride</u>
NO	<u>nitrogen monoxide</u>	NCl ₃	<u>nitrogen trichloride</u>
NO ₂	<u>nitrogen dioxide</u>	CO ₂	<u>carbon dioxide</u>

Ionic and Covalent Compounds

Name _____

Date _____

A. Write formulas for the following:

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|-----------------------|-------------------------|------------------------------|-----------------------------------|
| 1. sodium iodide | <u>NaI</u> | 8. copper(I) oxide | <u>Cu₂O</u> |
| 2. lithium chloride | <u>LiCl</u> | 9. copper(II) oxide | <u>CuO</u> |
| 3. silver oxide | <u>Ag₂O</u> | 10. carbon tetraiodide | <u>CI₄</u> |
| 4. zinc sulphide | <u>ZnS</u> | 11. phosphorus pentachloride | <u>PCl₅</u> |
| 5. iron(II) chloride | <u>FeCl₂</u> | 12. dinitrogen tetrasulphide | <u>N₂S₄</u> |
| 6. iron(III) chloride | <u>FeCl₃</u> | 13. nitrogen monoxide | <u>NO</u> |
| 7. lead(IV) oxide | <u>PbO₂</u> | 14. nitrogen dioxide | <u>NO₂</u> |

B. Write names for the following:

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|-----------------------------------|--------------------------------|---------------------|-------------------------------|
| 1. PI ₃ | <u>phosphorous trichloride</u> | 8. H ₂ O | <u>hydrogen oxide (water)</u> |
| 2. K ₂ O | <u>potassium oxide</u> | 9. CO ₂ | <u>carbon dioxide</u> |
| 3. Al ₂ O | <u>aluminium oxide</u> | 10. CI ₄ | <u>carbon tetraiodide</u> |
| 4. FeI ₂ | <u>iron (II) iodide</u> | 11. SO ₂ | <u>sulphur dioxide</u> |
| 5. CuCl | <u>copper (I) chloride</u> | 12. CS ₂ | <u>carbon disulphide</u> |
| 6. Fe ₂ O ₃ | <u>iron (III) oxide</u> | 13. SO ₃ | <u>sulphur trioxide</u> |
| 7. MgO | <u>magnesium oxide</u> | 14. CO | <u>carbon monoxide</u> |