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| Bonding and Ionic Naming Worksheet |
| **#** | **Question** | **Answer** |
| **1** | What are the electrons in the outer shell of an atom that form the chemical bonds called? |  |
| **2** | What are the three main types of bonds? |  |
| **3** | Using the terms: metal and nonmetal, describe what types of atoms make up each of the three types of bonds mentioned above. |   |
| **4** | What is the name of the type of chemical bond that is formed when two electrons are shared? |  |
| **5** | What is different between an ionic bond and the bond in the above question? |  |
| **6** | How many valance electrons are there in carbon? Where do you look on the periodic table to find out? |  |
| **7** | Label the following as ionic, or covalent, compounds/molecules |
| 1. NaCl
2. CO2
3. K3P
4. HBr
 | 1. CCl4
2. AlBr3
3. H2O
 |
| **8** | How many Carbon atoms are in CO2 ? How many oxygen atoms are in CO2 ? |  |
| **9** | How many Nitrogen atoms are in (NH4)2S ? How many Hydrogen atoms? How many Sulfur atoms |  |
| **10** | Explain how to name binary ionic compounds |  |
| **11** | Explain how to name polyatomic ionic compounds |  |
| **12** | Name the following ionic compounds: |
| 1. LiOH
2. Na2SO4
3. SbCl3
4. Al(OH)3
5. Sb(NO3)3
 | 1. Al2(SO4)3
2. HgO
3. Fe2S3
4. Pb(NO3)2
5. K2SO3
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