Worksheet – Types of Bonds Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Identify the attractive forces associated with…
   1. Ionic Bonds:
   2. Covalent Bonds:
2. Identify two similarities between ionic and covalent bonds
3. Identify two difference between ionic and covalent bonds
4. Complete the following table by writing formulas of the compounds formed from the pairs of elements.

|  |  |  |  |
| --- | --- | --- | --- |
| Elements | Compound Formula | ΔEN Value | Nature of Bonds Present |
| 1. rubidium and oxygen |  |  |  |
| 1. strontium and bromine |  |  |  |
| 1. carbon and sulphur |  |  |  |
| 1. silicon and chlorine |  |  |  |

1. Magnesium is a metal and sulphur is a non-metal. Compare the ΔEN value for these elements in MgS to ΔEN value for the non-metal hydrogen and oxygen in water (H2O). Which of the two compounds possesses a greater amount of ionic character in its bond?