**Periodic Table, Shapes of Molecules and Bonding:**

**Electronegativity and Types of Bonds: Quiz 7b**

Answer the following:

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1. How are ionic bonds and covalent bonds different?
2. Complete the table below:

|  |  |  |  |
| --- | --- | --- | --- |
| **Atom 1** | **Atom 2** | **Electronegativity Difference (∆EN)** | **Bond Type** (Nonpolar Covalent (NPC), Polar Covalent (PC), or Ionic (I)) |
| Potassium | Nitrogen |  |  |
| Nickel | Oxygen |  |  |
| Barium | Tin |  |  |
| Hydrogen | Oxygen |  |  |

Answers:

1. How are ionic bonds and covalent bonds different?

In Ionic Bond electrons are said to be transferred from one atom to another. In covalent bonds electrons are said to be shared.

1. Complete the table below:

|  |  |  |  |
| --- | --- | --- | --- |
| **Atom 1** | **Atom 2** | **Electronegativity Difference (∆EN)** | **Bond Type** (Nonpolar Covalent (NPC), Polar Covalent (PC), or Ionic (I)) |
| Potassium | Nitrogen |  2.2 | I |
| Nickel | Oxygen | 1.5 | PC |
| Barium | Tin | 1.1 | PC |
| Hydrogen | Oxygen | 1.2 | PC |