**Virtual Bonding Lab** Name:

Visit blog for Unit 2 for the link or go to : **https://tinyurl.com/huogxck**

**Problem**

Once at the site, click start and listen to the problem (clicking on 1, 2, 3, 4 at the bottom of the page to progress) and answer the following questions:

1. Describe the following bond types using the icons:

Covalent:

Ionic:

Metallic:

Complete the following chart using icons provided in step 4. You will have to read and organize the information.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Bond Type | Appearance | Solubility | Melting Point | Conductivity |
| Ionic |  |  |  |  |
| Covalent |  |  |  |  |
| Metallic |  |  |  |  |

**Plan**

**(Listen to page 1 ONLY- the rest of the directions do not apply to you)**

1. What is the main purpose of the lab?

2. How will you perform the lab (what will you click on)?

3. Will all your samples match exactly the properties for each bond type?

**Perform**

1.Which substances will you *not* be able to perform the conductivity test on?

Now, fill in the chart below.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Substance | Appearance | Solubility | Melting Point | Conductivity |
| NaCl |  |  |  | Solid:  Liquid:  Dissolved: |
| Sugar |  |  |  | Solid:  Liquid:  Dissolved: |
| Copper |  |  |  | Solid:  Liquid:  Dissolved: |
| Unknown 1 |  |  |  | Solid:  Liquid:  Dissolved: |
| Unknown 2 |  |  |  | Solid:  Liquid:  Dissolved: |
| Unknown 3 |  |  |  | Solid:  Liquid:  Dissolved: |
| Unknown 4 |  |  |  | Solid:  Liquid:  Dissolved: |

**Analyze**

1.What is your plan for determining the bond types for the substances you tested?

|  |  |  |
| --- | --- | --- |
| Substance | Bond Type | Reasoning for Choice |
| NaCl |  |  |
| Sugar |  |  |
| Copper |  |  |