**Properties of Ionic Compounds – Topics**

1. Why are ionic compounds hard and brittle?
2. A chemical compound is hard, brittle, has a low melting point, and burns with a weak flame when exposed to heat. Determine if this is an ionic compound, and if so, why the properties aren’t what you’d expected.
3. Describe the conditions under which ionic compounds conduct electricity.
4. Why do ionic compounds generally dissolve well in water?
5. Do you believe that there are any ionic compounds that don’t conduct electricity when placed in water? Why or why not?