| Ionic vs. Covalent Reading Guided Notes |
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| An ionic compound is formed by ionic bonds between atoms. What kinds of elements tend to form ionic bonds? |
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| Based on the diagram and your data from the conductivity lab, which elements form cations and which form anions? |
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| At the particle scale, what is the biggest difference between an ionic bond and a covalent bond? |
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| What would a particle diagram of an ionic compound look like? |
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| A covalent compound? |
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| Why is it important that water is a polar molecule when discussing how ionic substances dissolve? |
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| If in water, which is a polar molecule, the oxygen has a negative polarization and the hydrogens have a positive polarization, what would a particle representation of the molecule look like? |
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| How would water molecules orient around dissolved sodium sulfate (Na $_2SO_4$)? |
| What is the difference between methane and paraffin wax that explains their different phases at room temperature? |
| What is the difference between the structure of molecular and ionic materials at the atomic scale? |
| Why was dextrose ($C_6H_{12}O_6$) able to dissolve in water? |
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