Activity: Building Covalent Compounds

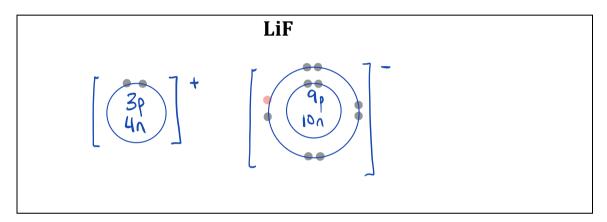
Name: Key Date: Block:

Part I: Review of Ionic Compounds

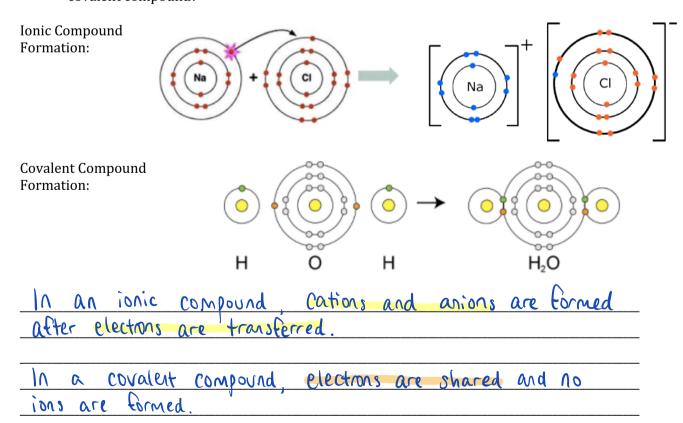
1. What type of elements (metals / non-metals) form an ionic compound?

An ionic compound is made up of a metal (becoming a cation) and a non-metal (becoming an anion)

2. Draw a Bohr model of the ionic compound lithium fluoride (remember, this is *after* electrons have been transferred and ions have formed)



3. What differences can you spot between the formation of an ionic compound versus a covalent compound?



Part II: Covalent Compounds

Using the provided materials, build covalent compounds and then draw their *Bohr models* on this sheet.

Hint #1: In covalent compounds, electrons are SHARED rather than transferred. No ions are made

Hint #2: Each spring represents two electrons that are shared between elements

Hint #3: Covalent compounds form individual molecules rather than a repeating lattice structure

Red: Oxygen Yellow: Sulfur Black: Carbon White: Hydrogen Green: Fluorine Orange: Nitrogen

