


Directions: Use the manipulatives to make the following bonds in the table below. For some of the rows, you are given the charges on the cation and anion and you can choose whatever puzzle pieces (ions) with those charges!

 CATION	CATION CHARGE (1+, 2+, 3+)	 ANION	ANION CHARGE (1-, 2-, 3-)	NAME OF COMPOUND	CHEMICAL FORMULA (NOTE THE NUMBER OF EACH ION PUZZLE IN THE BOND; CATION ALWAYS COMES FIRST)
sodium	1+	chloride	1-	sodium chloride	NaCl
magnesium		iodide			
	2+		2-		
aluminum			3-		
	1+	phosphide			
rubidium			2-		
	3+	bromide			
strontium		sulfide			
cesium			1-		
				potassium oxide	
					BaCl ₂

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1. In your own words, describe what an ionic compound is:

2. After doing this activity, how do you feel about making, naming, and writing the chemical formulas for ionic compounds? Circle one face and write a quick sentence describing what you feel good or not so good about. _____



