Name	Period
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Roll the Dice with Ionic Compounds

Introduction

When metals and non-metals chemically react, the atoms will tend to form **ions** or charged atoms. Ions form because **electrons** are either gained or lost. Metals will generally form **cations** or positive ions, since they tend to **donate electrons** Non-metals will form **anions** or negative ions, since they tend to **accept electrons**.

Activity

In this activity you will work with a partner to identify ionic compounds that you have created. Each person will take turns rolling one cation di and one anion di, to identify chemical compound you will be naming. Each time a person rolls a die they should record the compound in the table. After writing down the formula, students must gain approval by their partner(s) that the formula data is correctly filled out. If a student gets the compound incorrect, they will not earn credit for the round and must try again with a new combination next round.

Data Table

Ion name	Ion Symbol	Anion/Cation	Count	Chemical Formula	Chemical Name
Potassium	\mathbf{K}^{+}	Cation	1	KCl	
Chlorine	Cl	Anion	1		

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