## **Ionic Lab Simulation**

- Google: javalab precipitation simulation
- Click on: Precipitation Reation JavaLab or <u>https://javalab.org/en/precipitation\_reaction\_en/</u>

## **Investigating Precipitation Reactions**

Combine the following substances (two at a time) while pressing Reset in Between.

In the table below, fill out whether a solid was formed by writing "ppt" for precipitate, write the name of the precipitate (solid), and write the formula for the precipitate (solid).

Example: We want to combine  $AgNO_3$  with  $Na_2SO_4$  (one of the positive ions  $Ag^+$  with the negative ions  $SO_4^{2-}$ ). On the simulation, click on  $AgNO_3$  and  $Na_2SO_4$ . You will see that nothing was formed, so in our table we will put "no ppt".

If we made a solid, you would put in "ppt" and then give the name and formula for the solid.

Let's say by an example that you were combining  $AgNO_3$  with something like NaBr. If the  $Ag^+$  and the  $Br^-$  came together to make a solid, you would put "ppt" and "AgBr" and "silver bromide" in your table.

Each space in your table either needs "no ppt" or "ppt" and it's name and formula.

		AgNO <sub>3</sub>	BaCl <sub>2</sub>	CaCl <sub>2</sub>
		$Ag^+$	Ba <sup>2+</sup>	Ca <sup>2+</sup>
Na2SO4	SO4 <sup>2-</sup>	No ppt		
NaCl	Cŀ			
Na <sub>2</sub> CO <sub>3</sub>	CO3 <sup>2-</sup>			