Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ UGA myID \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Solubility and Precipitation Reactions**

Predict the products for each double-displacement reaction, including states of matter. Then, match each substance to its appropriate molecular-level picture, which are found at the end of the worksheet. ***The small circles are cations, and the large circles are anions.*** We will learn why they are different sizes in a later chapter! Submit this worksheet to eLC in the dropbox.

2 NaCl(aq) + Pb(NO3)2(aq) 🡪 2 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_ + \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_

1. \_\_\_\_ 2. \_\_\_\_ 3. \_\_\_\_ 4. \_\_\_\_

CaBr2(aq) + 2 AgNO3(aq) 🡪 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_ + 2 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_

5. \_\_\_\_ 6. \_\_\_\_ 7. \_\_\_\_ 8. \_\_\_\_

Li2CO3(aq) + CaCl2(aq) 🡪 2 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_ + \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_

9. \_\_\_\_ 10. \_\_\_\_ 11. \_\_\_\_ 12. \_\_\_\_

Na2SO4(aq) + CaBr2(aq) 🡪 2 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_ + \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_

13. \_\_\_\_ 14. \_\_\_\_ 15. \_\_\_\_ 16. \_\_\_\_

2 K3PO4(aq) + 3 CaCl2(aq) 🡪 6 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_ + \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_

17. \_\_\_\_ 18. \_\_\_\_ 19. \_\_\_\_ 20.\_\_\_\_

|  |  |
| --- | --- |
| 1. The box contains four small black spheres and four large purple spheres. | 1. The box contains six small black spheres and three large purple spheres. |
| 1. The box contains three small black spheres and six large purple spheres. | 1. The box contains a black bar at the bottom |
| 1. The box contains nine small black spheres and three large purple spheres. | 1. The box contains six small black spheres and four large purple spheres. |