

Salts and Solubility Activity 4

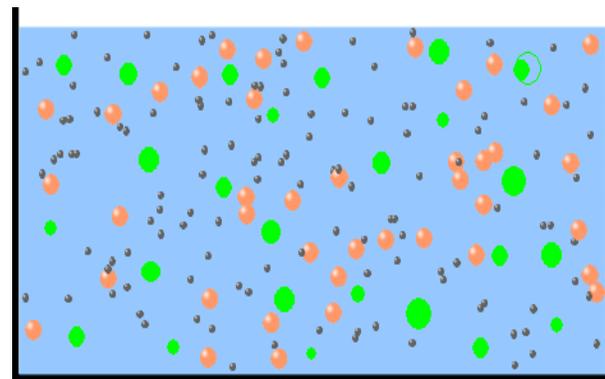
The clicker questions do not directly address the goals because they are quantitative or have been well discussed by the group during the activities.

Learning Goals for 4: Students will be able to:

- Calculate Q .
- Predict what would be observed on a macroscopic level to a solution by comparing Q to K_{sp} .
- Use microscopic illustrations, to help explain the predictions.
- Use LeChatelier's Principle to predict how changing the amount of water will affect the solution.

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Two salts, **XB** and **AB**, are dissolved in a beaker of water. There are equal number of moles. They have different solubility product constants.



1. If you added B^- ions which would precipitate first?

A. AB

B. XB

C. They behave the same

D. Not enough information

2. 0.010 moles of MgCl_2 and 0.020 moles of CuCl_2 are dissolved in 0.10 liters of water. A solution of NaOH is slowly stirred in. Which precipitate forms first ?



a. MgCl_2 b. CuCl_2 c. $\text{Mg}(\text{OH})_2$ d. $\text{Cu}(\text{OH})_2$