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Colorful Salting Out

Discussion Questions

- 1. Draw a diagram of the bottle and its contents as presented by your instructor.
- 2. Isopropyl alcohol and saturated sodium chloride solution have different densities. One has a density of 0.785 g/mL and the other 1.2 g/mL. How can you infer from your diagram which is denser?
- 3. Predict what will happen after the marker is added to the bottle.
- 4. Predict what will happen if the bottle is shaken and set back down.
- 5. Draw diagrams of the bottle immediately after it was shaken and long after the bottle was shaken.
- 6. Write a possible explanation for what happened when the bottle was shaken and set back down.
- 7. (Optional) Draw separate molecular diagrams of how sodium chloride and isopropyl alcohol would interact in water. Identify the types of intermolecular attractions within each diagram.
- 8. (Optional) Based on your previous answers, which colored pigment do you think is the most polar.

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