

# POM Lesson 13

## How Much Solute Dissolves in a Solvent?

Name \_\_\_\_\_

Date \_\_\_\_\_

Class \_\_\_\_\_ Table \_\_\_\_\_

### Getting Started (page 113)

2. Observations of inside the tube:

A.

B.

C.

Conclusions made from your observations:

D.

E.

### Inquiry 13.1 Saturating a Solution (page 114)

3. How many scoops of sodium chloride dissolved in the water?

How did you know that no more would dissolve?

4. Definition of **saturated solution**:

5. How would you find out exactly how many grams of salt dissolved in the water in Step 2.

## **Inquiry 13.2 Determining Solubility (page 114)**

1.A. What will you need to measure?

B. How will you know when you have a saturated solution?

C. How will you calculate the amount dissolved?

### **3. Class Plan:**

What are you trying to find out?

What materials will you use?

What will be your procedure?

4. Design a data table to record your results.

6. A. How many grams of each substance dissolved in water?  
(Make sure to record the volume of water you used.)

\_\_\_\_\_ g sodium chloride dissolved in \_\_\_\_\_ mL water

\_\_\_\_\_ g sodium nitrate dissolved in \_\_\_\_\_ mL water

B. Are different substances equally soluble in water?

### **Reflecting On What You've Done (page 115)**

2. How could you use the property of solubility to help identify a type of matter?