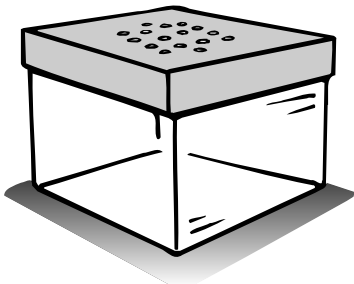
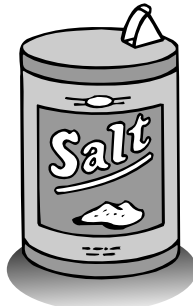


# Investigating Brine Shrimp

## WHAT YOU NEED



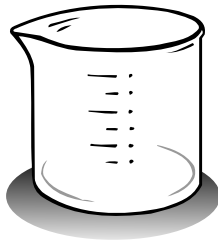
glass or plastic container that will hold at least 2 L of water



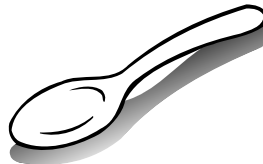
kosher or noniodized salt



brine shrimp eggs



500-mL beaker



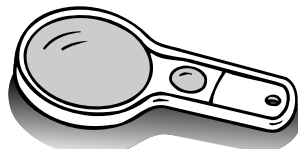
plastic spoon



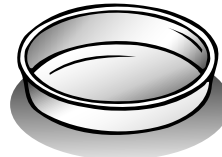
water



dropper



hand lens



petri dish

### Find Out

Do this activity to see how brine shrimp grow.

### Process Skills

Measuring  
Predicting  
Observing  
Communicating

### Time

- 10 minutes the first day
- 20 minutes three days later
- 10 minutes every other day for two weeks



## WHAT TO DO

1. **Measure** 2 L of water and put it into the container. Allow the water to sit for three days. Stir the water occasionally.
2. Dissolve 5 level spoonfuls of salt in the water. Add a half spoonful of brine shrimp eggs to the salt water. Place the container in a warm place.

3. After a day, use the dropper to remove a few eggs from the water. Put the water and eggs on a petri dish, and use the hand lens to **observe** them closely. **Record** the day and a description of the eggs on your chart.
4. **Predict** how the eggs will change.
5. **Observe** a drop of water two days later to see how the eggs changed. **Record** the changes on the chart.
6. Continue to **observe** and **draw** a picture of your observations every other day for two weeks.



**Prediction:** \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

<b>Investigating Brine Shrimp</b>	
<b>Time</b>	<b>Observations</b>
<b>Week 1 Day 1</b>	
<b>Day 3</b>	
<b>Day 5</b>	
<b>Week 2 Day 1</b>	
<b>Day 3</b>	
<b>Day 5</b>	

## Conclusions

1. When did the eggs hatch?
2. How did the brine shrimp change after they hatched?

## New Questions

1. What other animals hatch from eggs like brine shrimp?
2. Write a new question you have about how brine shrimp grow.



Name \_\_\_\_\_



# ACTIVITY

## Comparing Animal Life Cycles

Use these questions to help you organize the information you find about your animal. Add your own questions as you think of them.

What animal did your group choose?

What are the stages of the animal's life cycle?

How long does each stage last?

How long does the average animal live?

How do the adult animals interact with their young?

Add your own questions.

- 
-

Name \_\_\_\_\_

## **Conclusions**

- ① How is your animal different from the other animals chosen by your classmates?
  
- ② Compare your animal's average life span with the others. Is it shorter or longer than the others?
  
- ③ How does your animal's size compare with the size of the other animals?

## **Asking New Questions**

- ① Do you think the size of an animal and its life span are related? Explain.
  
- ② What are some animals that have a life cycle similar to your group's animal?

Name \_\_\_\_\_



# ACTIVITY

## Observing Transpiration

What do you **predict** will happen to the plant leaves?

What did you **observe** about the bag and the plant? **Draw** or **write** what you discovered.

## **Activity Journal**

### **Lesson 2 • Carbon and Water Cycles**

Name \_\_\_\_\_

## **Conclusions**

**1** What happened in the bag?

**2** Why did this happen?

## **Asking New Questions**

**1** **Predict** what would happen to the plant leaves if you kept the plastic bag on the stem.

**2** **Predict** what would happen if you moved the plant into a dark area.

**3** **Design investigations** to test your predictions.



Name \_\_\_\_\_



# ACTIVITY

## Food Webs

Write consumer or producer next to each of these.

**Plants**

**Herbivores**

**Predators**

**Omnivores**

**Scavengers**

**Decomposers**

Give one example for each of the above: for example, a wolf is a predator.

Name \_\_\_\_\_

## **Conclusions**

① What happened to the food web when some of the cards were removed?

② What would happen in nature if one of the animal cards were not attached to a food card?

## **Asking New Questions**

① What organisms do you depend on in your food web?

② What would happen to your web if the orange sun circle were not there?