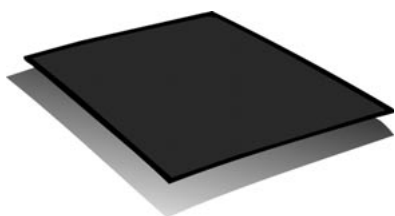


# Making a Crystal Garden

## WHAT YOU NEED



**black construction paper**



**aluminum pie plate**



**cup of hot water**



**1 spoonful Epsom salts**



**spoon**



**food coloring**



**scissors**



**goggles**

### Find Out

Do this activity to see how matter can change.

### Process Skills

**Observing**  
**Communicating**  
**Inferring**

### Time

- 1 hour to get started
- 10 minutes a day for one week

# WHAT TO DO



1. Cut the construction paper to fit into the bottom of the pie plate.

**Safety!** Be careful with scissors.

2. Stir the Epsom salts into the hot water. **Safety!** Be very careful with hot water!

3. Keep stirring until you can't see the Epsom salts. Wait for the water to cool. Then, slowly pour the salt water into the pie plate.

4. Put the pie plate near a window. Leave it there for one day.

**Observe** what happens.

5. Make another cup of salt water. This time, add three drops of food coloring to the water. Pour two spoonfuls of the colored salt water onto the construction paper. Leave it there for one day.

6. **Observe** what happens. **Draw** a picture of what you see.

7. Repeat steps 5–6, using different food colorings each time.



<b>Day</b>	<b>Draw Your Crystal Garden</b>
<b>Day One</b>	
<b>Day Two</b>	
<b>Day Three</b>	
<b>Day Four</b>	
<b>Day Five</b>	

# Conclusions

1. What happened to the water you put into the pie plate?

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2. Where did the crystals come from?

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# New Questions

1. What would happen if you didn't add food coloring to the water?

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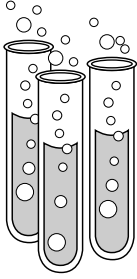
2. Write a question you still have about the way matter changes.

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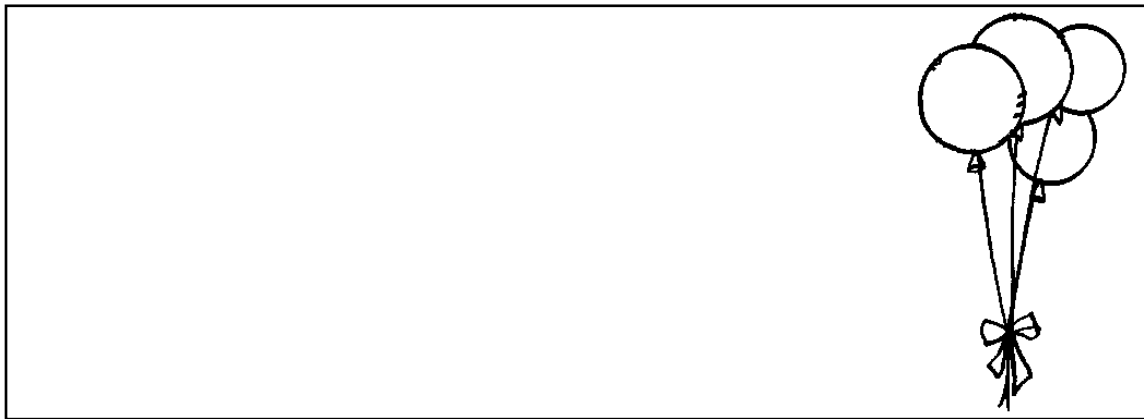
Name \_\_\_\_\_



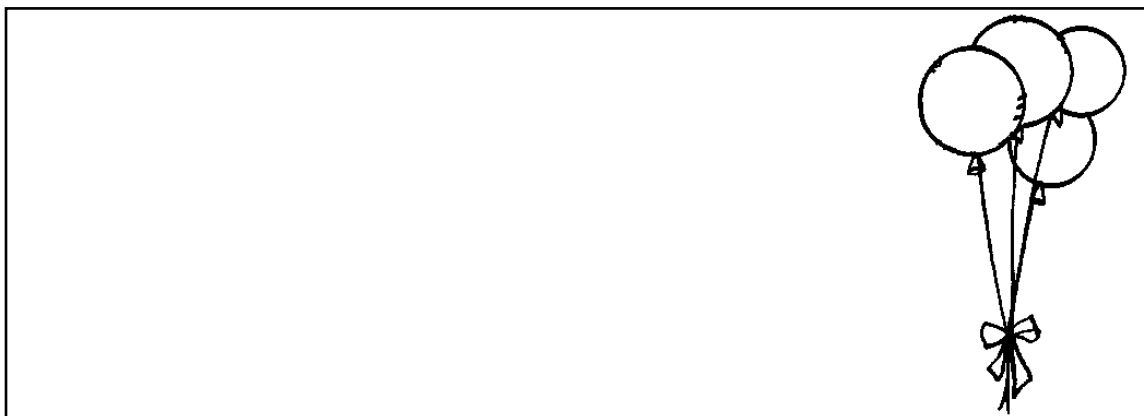
# ACTIVITY

## Gas Takes Up Space

How does your balloon look before you blow it up? **Draw** a picture.



Blow up your balloon. How does the balloon look now? **Draw** a picture.



**Activity Journal**

**Lesson 1 • Solids, Liquids, and Gases**

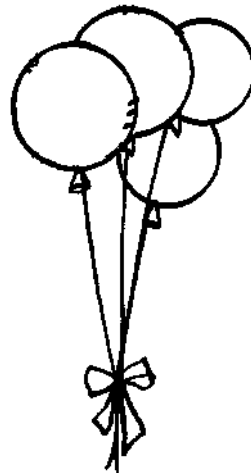
Name \_\_\_\_\_

Name two ways the balloon changed.

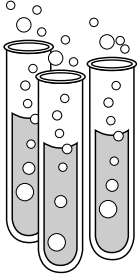
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**Predict** what would happen to the gas in the balloon if you untied it. **Draw** a picture to show what you think would happen.



Name \_\_\_\_\_



# ACTIVITY

## Changing Water

**Tell** how the ice in the bowls looks. Use words.

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**Draw** what you **see**.

**First try:**

**Second try:**

**Activity Journal**

**Lesson 2 • Heat and Matter**

Name \_\_\_\_\_

**Tell** how the ice looks after one hour. Use words.

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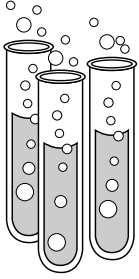
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**Draw** what you **see**.

<p><b>First try:</b></p>
<p><b>Second try:</b></p>



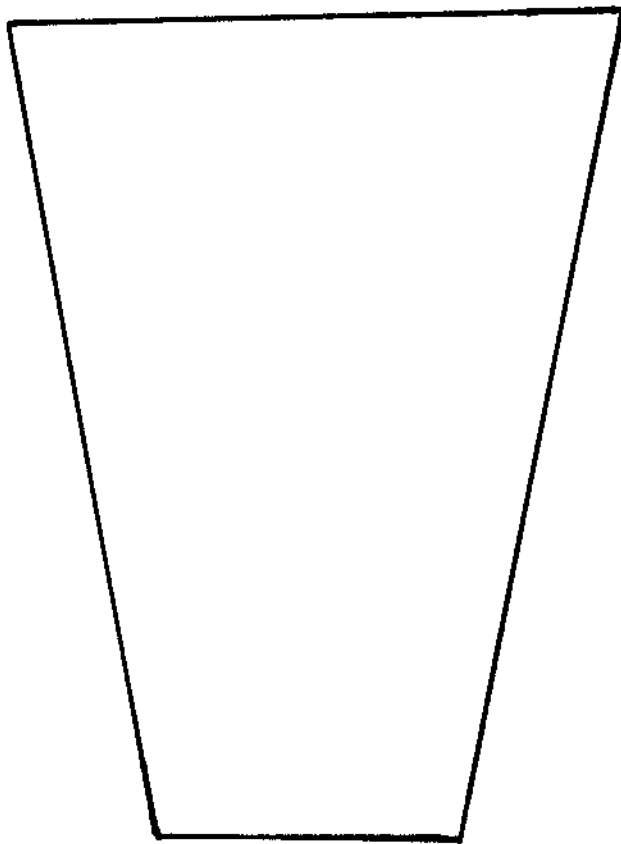
Name \_\_\_\_\_



# ACTIVITY

## Making Mixtures

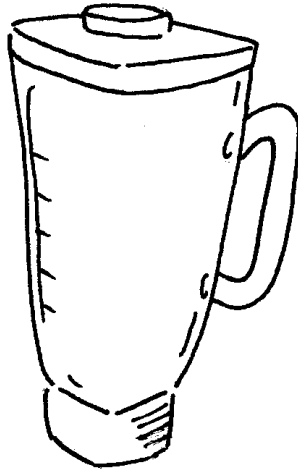
**Draw** what you **see**.



**Activity Journal**  
Lesson 3 • Mixtures

Name \_\_\_\_\_

Watch your teacher run the blender.  
Now **draw** what you **see**.



Wait one hour. **Draw** what you **see**.

