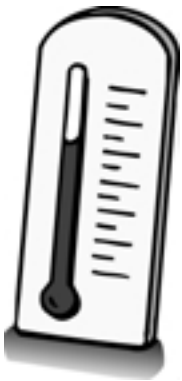


Building a Weather Station

WHAT YOU NEED



outdoor
thermometer



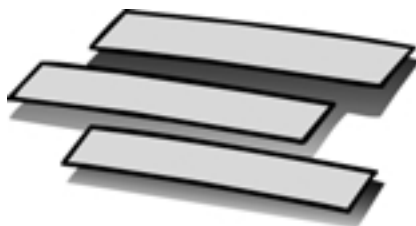
rain gauge



straw



tape



strip of
tissue paper

Find Out

Do this activity to see how the weather changes each day where you live.

Process Skills

Predicting

Measuring

Communicating

Observing

Time

- 30 minutes to set up the weather station
- 10 minutes each morning and afternoon for three weeks

WHAT TO DO



Hang the thermometer in a shaded place.

1. **Predict** how the weather will change from day to day.
2. Put the thermometer and rain gauge in a safe place outside.
3. Make a wind finder. Tape a strip of tissue paper to a straw.

4. **Measure** the temperature and the rainfall at the same time each morning and afternoon. **Record** your findings on the chart.
5. Take your wind finder outside each morning and afternoon. **See** what happens to your wind finder when the wind blows. See if the wind is light, strong, or very strong. **Record** what you find on the chart.



| | | Temperature | Rainfall | Wind |
|---------------|-----------|-------------|----------|------|
| Day 1 | Morning | | | |
| | Afternoon | | | |
| Day 2 | Morning | | | |
| | Afternoon | | | |
| Day 3 | Morning | | | |
| | Afternoon | | | |
| Day 4 | Morning | | | |
| | Afternoon | | | |
| Day 5 | Morning | | | |
| | Afternoon | | | |
| Day 6 | Morning | | | |
| | Afternoon | | | |
| Day 7 | Morning | | | |
| | Afternoon | | | |
| Day 8 | Morning | | | |
| | Afternoon | | | |
| Day 9 | Morning | | | |
| | Afternoon | | | |
| Day 10 | Morning | | | |
| | Afternoon | | | |
| Day 11 | Morning | | | |
| | Afternoon | | | |
| Day 12 | Morning | | | |
| | Afternoon | | | |
| Day 13 | Morning | | | |
| | Afternoon | | | |
| Day 14 | Morning | | | |
| | Afternoon | | | |
| Day 15 | Morning | | | |
| | Afternoon | | | |

Student data will vary.

Conclusions

1. What weather changes did you see?

Answers will depend upon local weather.

2. Was the weather the same on some days?
If so, how?

Answers will depend upon findings.

New Questions

1. How would the weather change if you recorded it every day of the year?

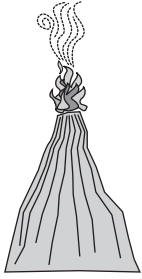
Answers will vary, but may include: During winter, the temperature is cool or cold, and it may snow. During spring, the temperature gets warmer and it may rain. During summer, it can be very sunny and the temperature can be very warm. During fall, the temperature gets cooler.

2. Write a question you still have about weather.

Accept all reasonable questions.



Name _____



ACTIVITY

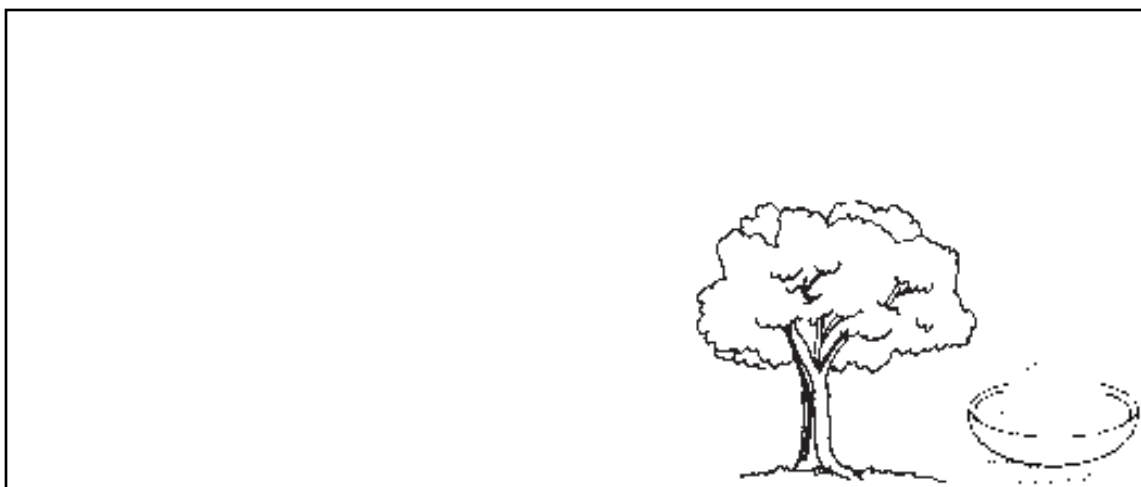
Warming the Land

Predict how the bowl of sand in the sun will feel.



Accept all reasonable predictions.

Predict how the bowl of sand in the shade will feel.

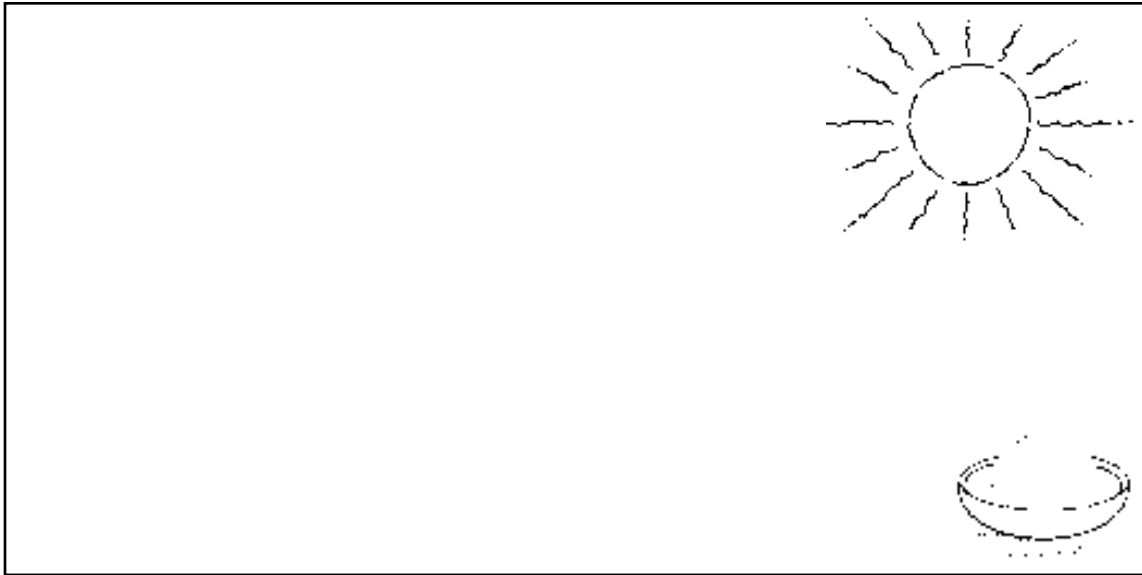


Accept all reasonable predictions.

Chapter Science Investigation

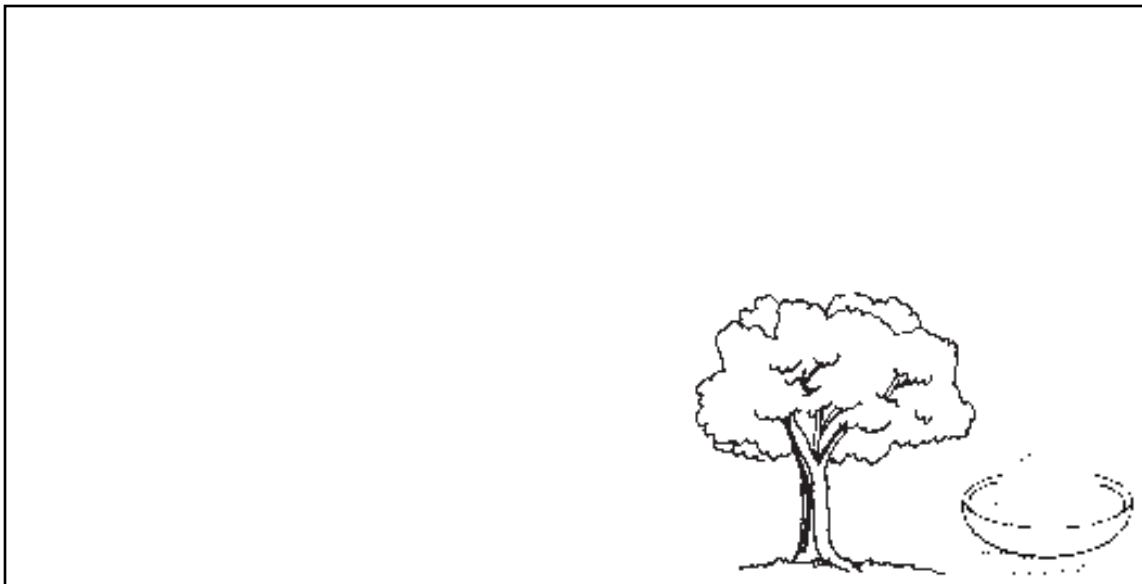
Name _____

How did the bowl of sand in the sun feel?



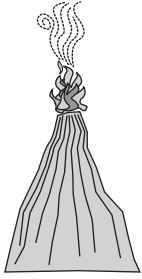
Answers will vary but should show or include warm or hot.

How did the bowl of sand in the shade feel?



Answers will vary but should show understanding that the sand felt cooler than the sand in the sun.

Name _____



ACTIVITY

Reading a Thermometer

What time of day is it?

morning **afternoon**

How does the air feel inside?

warm **cool** Answers will vary. Accept all reasonable answers.

How does the air feel outside?

warm **cool** Answers will vary. Accept all reasonable answers.

Draw a picture of the weather outside.



Answers will vary. Accept all reasonable answers.

Activity Journal

Lesson 2 • Measuring the Weather

Name _____

Draw what the thermometer inside looks like.

Drawings will vary but should be an accurate reading of the indoor thermometer.

Draw what the outdoor thermometer looks like.

Drawings will vary but should be an accurate reading of the outdoor thermometer.

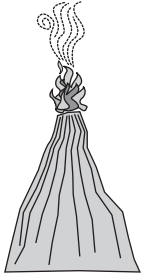


**thermometer
inside**



**outdoor
thermometer**

Name _____

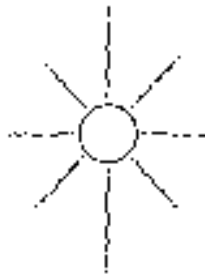


ACTIVITY

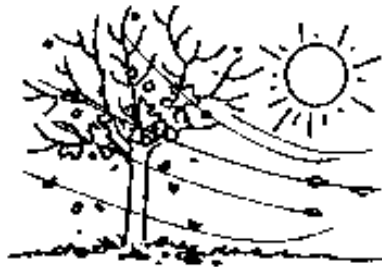
Making a Season Wheel

Write the names of the seasons.

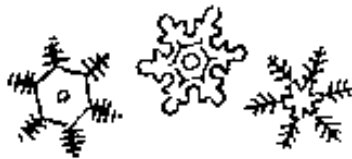
summer



fall



winter



spring

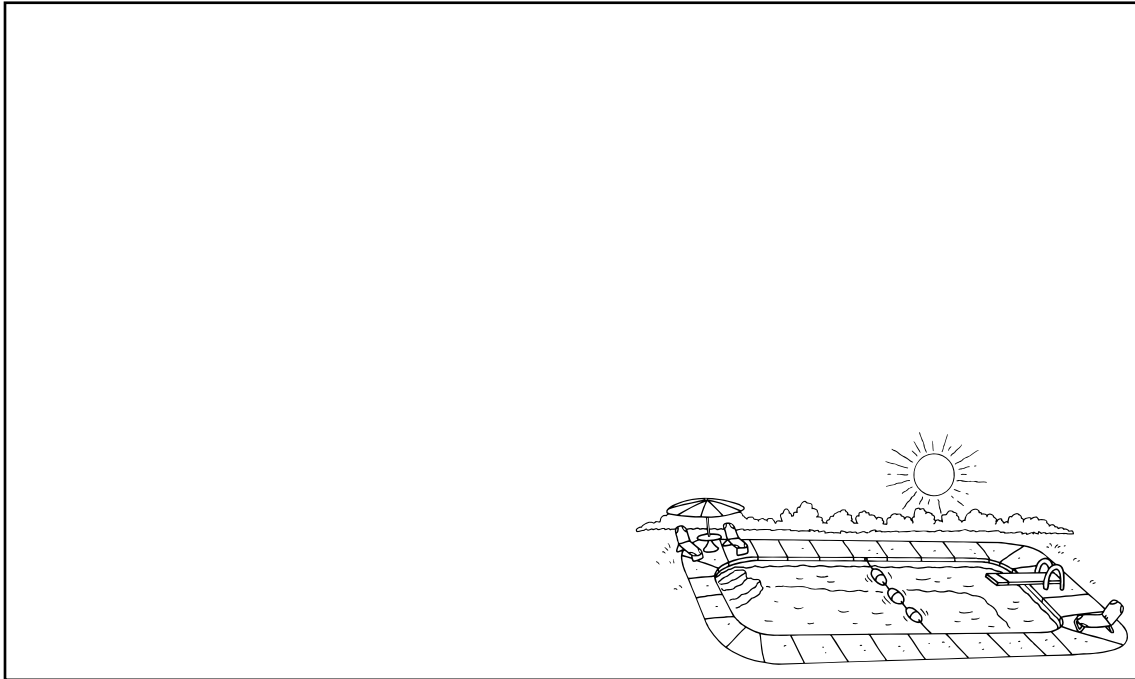


Activity Journal

Lesson 3 • The Seasons

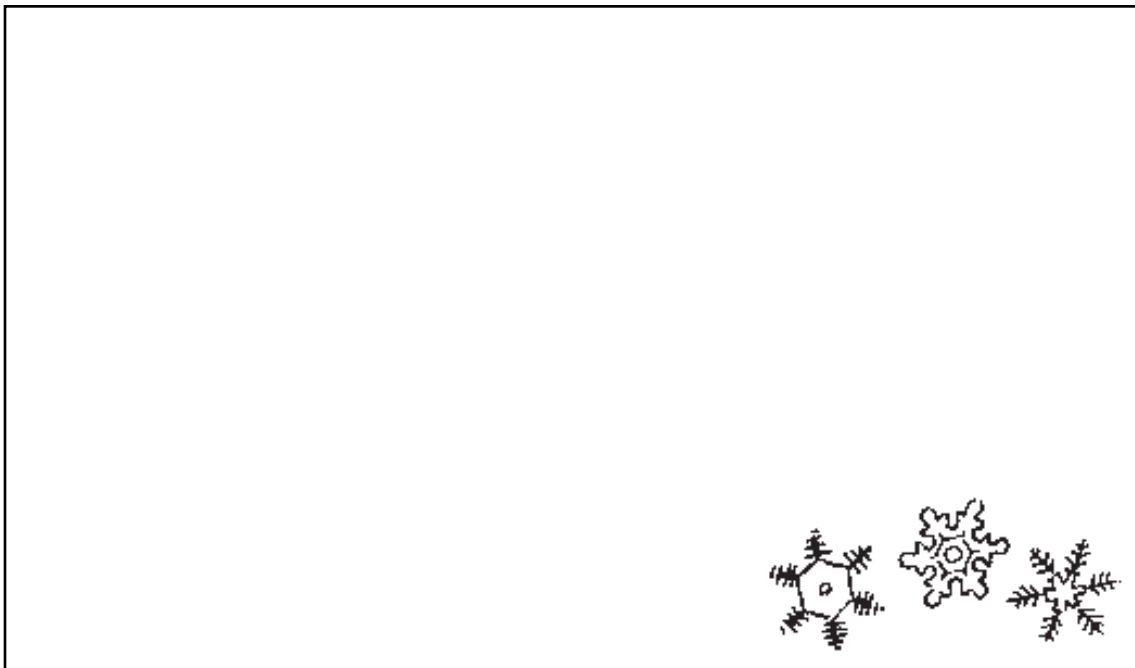
Name _____

Draw one thing you do in summer.



Answers will vary. Accept all reasonable answers.

Draw one thing you do in winter.



Answers will vary. Accept all reasonable answers.