

Weather Watchers



A First Grade Unit
supporting the
Michigan Science K-7 Content Expectations

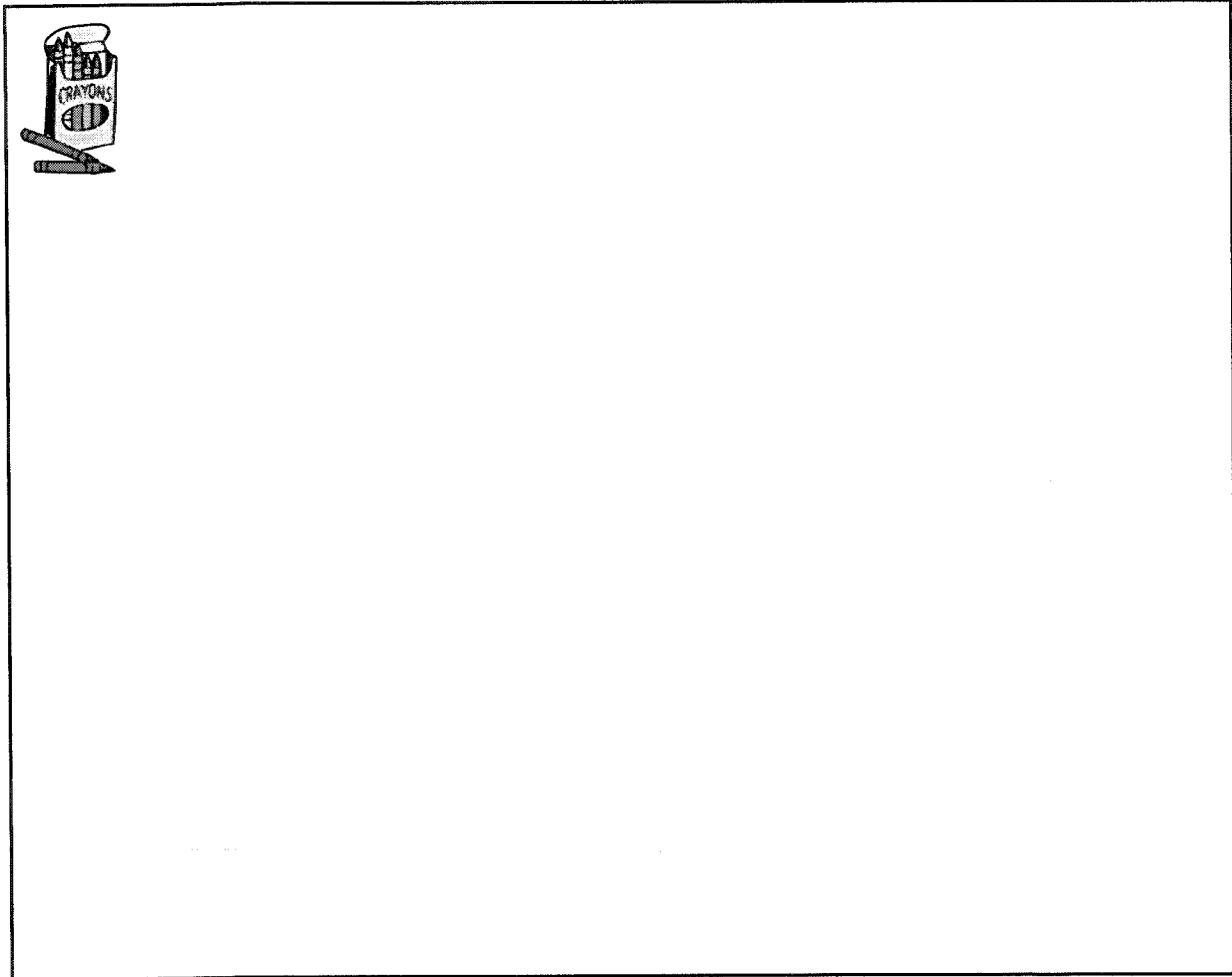
Name: _____

Name _____

Date _____

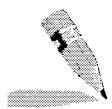


1. Draw a picture of your favorite weather.



2. Complete the sentence:

I would like to learn more about





A C T I V I T Y

Weather Observations

Name _____

Date _____

2



1. Draw or write what you observed as a weather watcher.

I saw:

I felt:

Name _____

Date _____

A C T I V I T Y
Weather Observations
(cont.)



2



2. Draw or write what you observed as a weather watcher.

I heard:

I smelled:

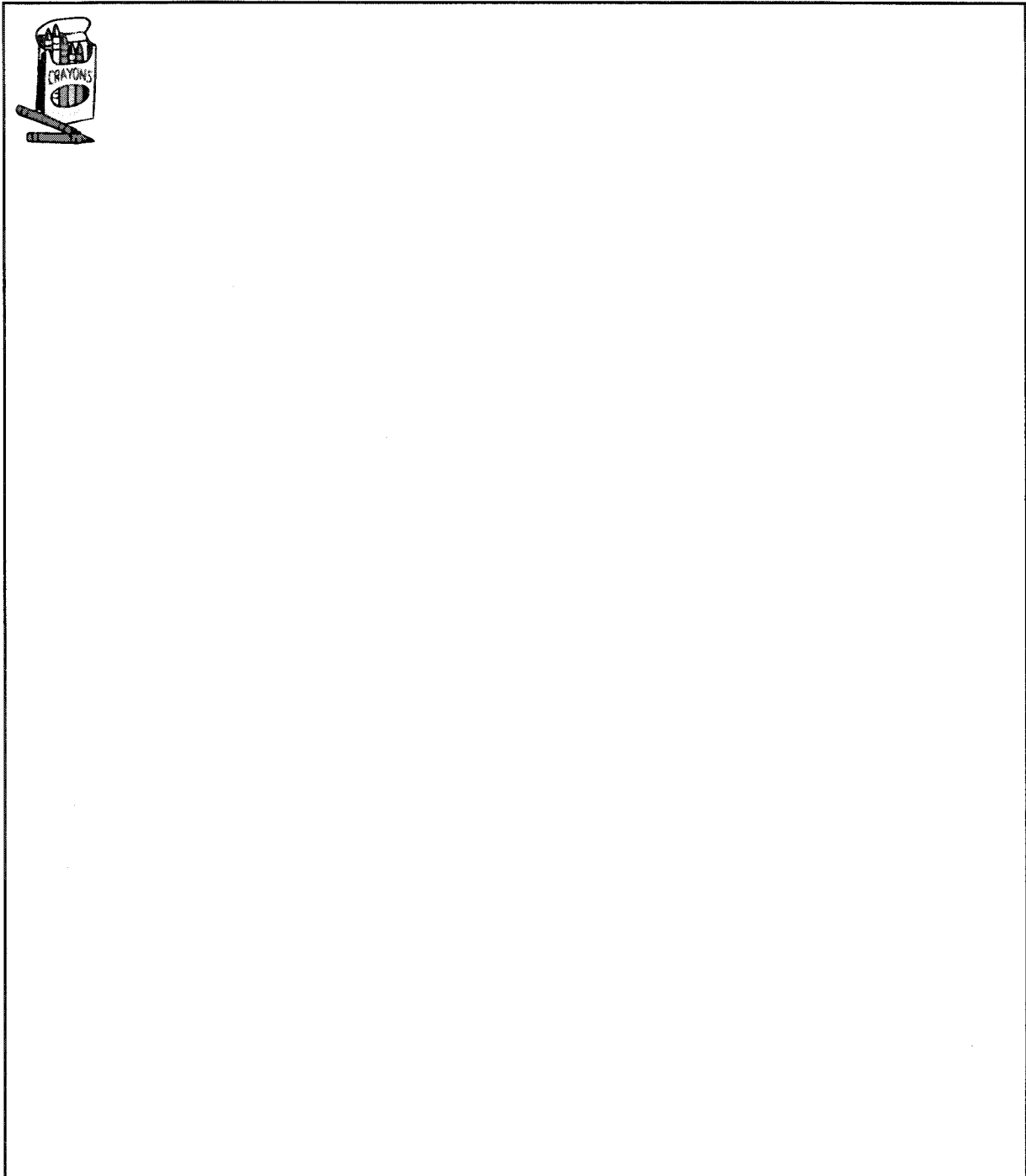


Name _____

Date _____

2

1. Today you observed the weather with your senses.
Draw a picture of your observation.



Name _____

Date _____



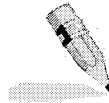
2. Complete the sentences:

The temperature was



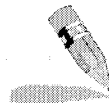
(hot, cold, cool, warm)

The wind was



(calm, breezy, strong)

The sky was



(clear, partly cloudy, cloudy)

It was



(raining, snowing, clear)



Name _____

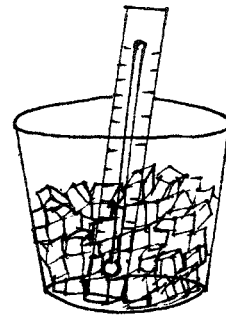
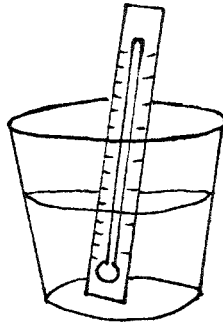
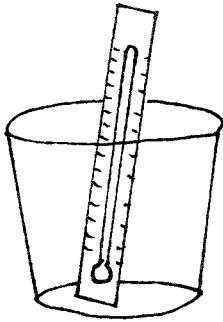
Date _____

3



1. Write the temperature of the air. _____

2. Predict the temperature of each cup.

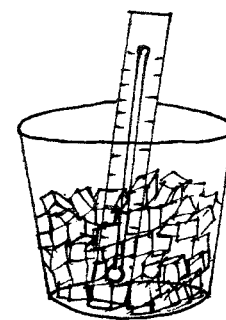
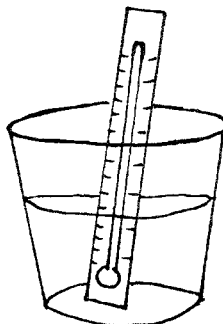
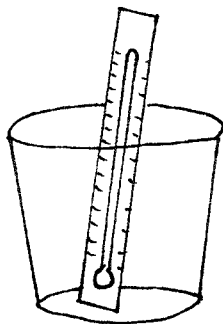


air

water

ice

3. Write the actual temperature of each cup.



air

water

ice

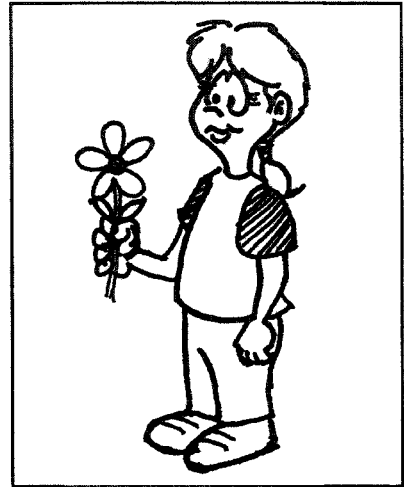
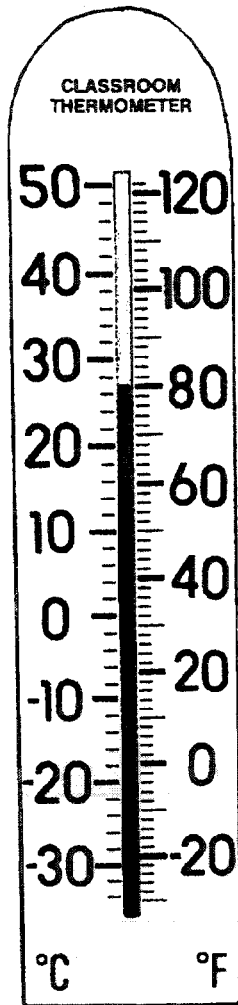
Name _____



Date _____



1. Look at the thermometer and circle the person correctly dressed for the air temperature.



2. Write a word that describes the temperature of the air on the thermometer.



ACTIVITY
Weather Watchers

Name _____

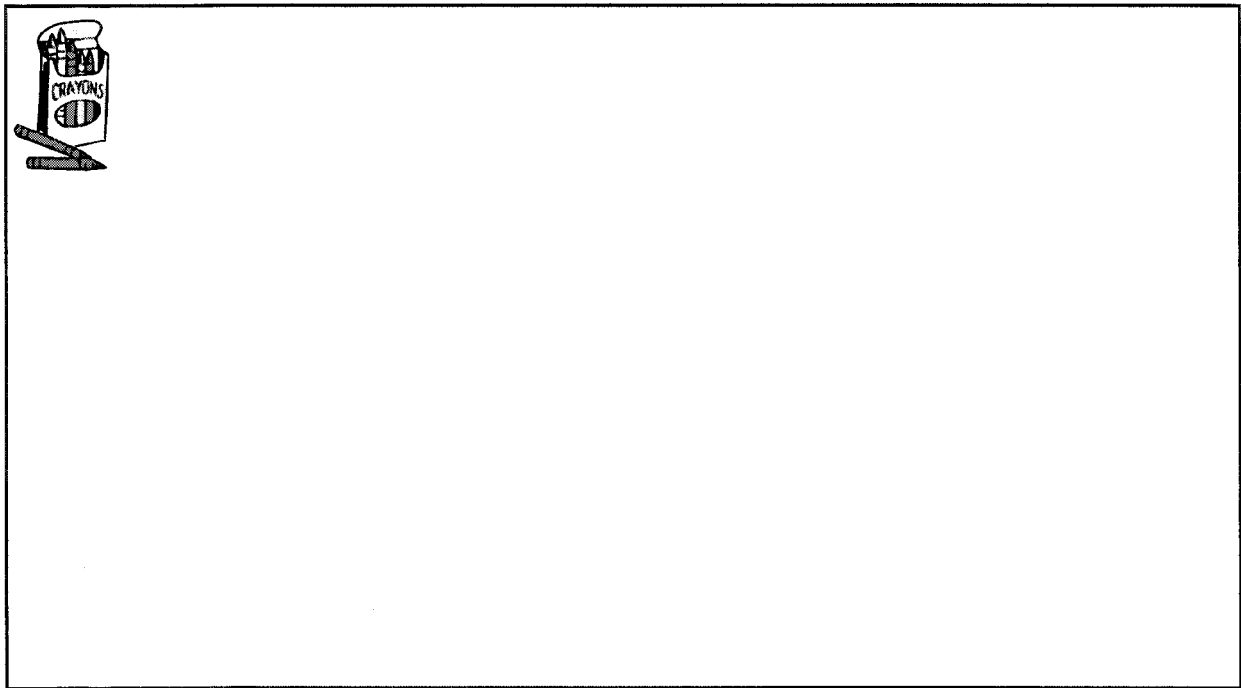
Date _____

4

1. Record the temperature on the thermometer before you placed it in the schoolyard.



Draw where you placed your thermometer.



2. My thermometer was in a _____ place.
 sunny/shady

3. After 10 minutes the temperature was _____



Name _____

Weather Watchers (cont.)

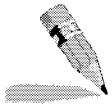
Date _____

4

1. Write a sentence that tells about the coldest place on the schoolyard. Tell why you think it is colder.



2. Write a sentence that tells about the warmest place on the schoolyard. Tell why you think it is warmer.





A C T I V I T Y

Blowing in the Wind

Name _____

Date _____

5

Draw your observations of the wind in the schoolyard.
Label your drawings to show evidence of wind.

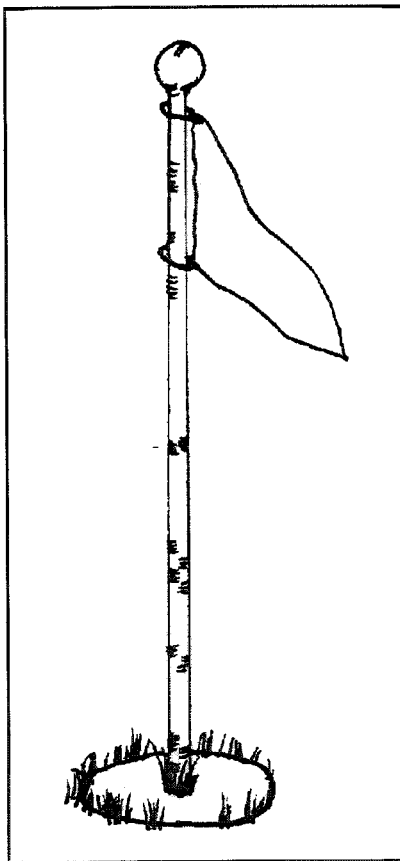
A large rectangular box for drawing. In the top-left corner, there is a small illustration of a crayon box labeled "CRAYONS" and two crayons.

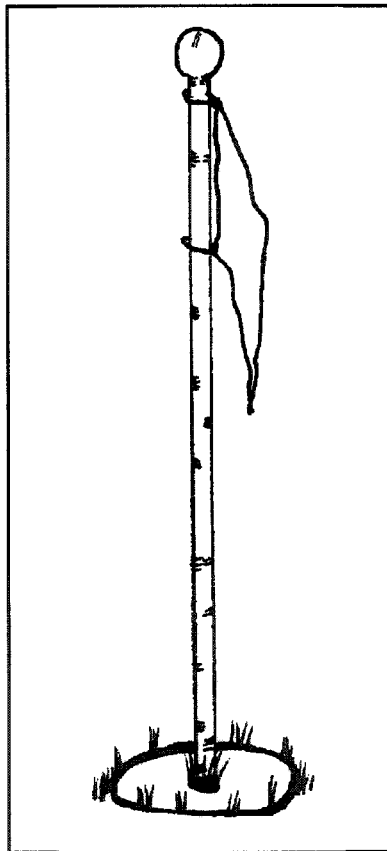
Name _____

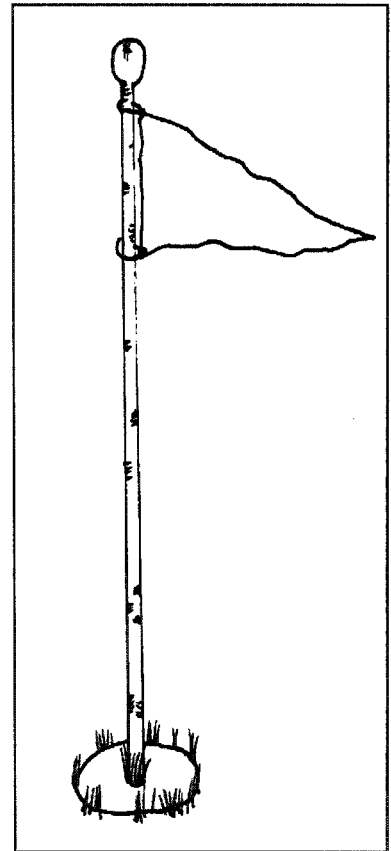


Date _____

Label the pictures of flags using wind speed words.
(calm, breezy, windy)









Name _____

Date _____

6

1. Draw a picture of a day there was too much wind.

A large rectangular box for drawing. In the top-left corner, there is a small illustration of a crayon box labeled 'CRAYONS' and a pencil.

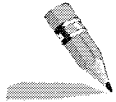
Name _____



Date _____

6

2. Write a story about a day there was too much wind.



Handwriting practice lines consisting of multiple sets of solid top and bottom lines with a dashed middle line.

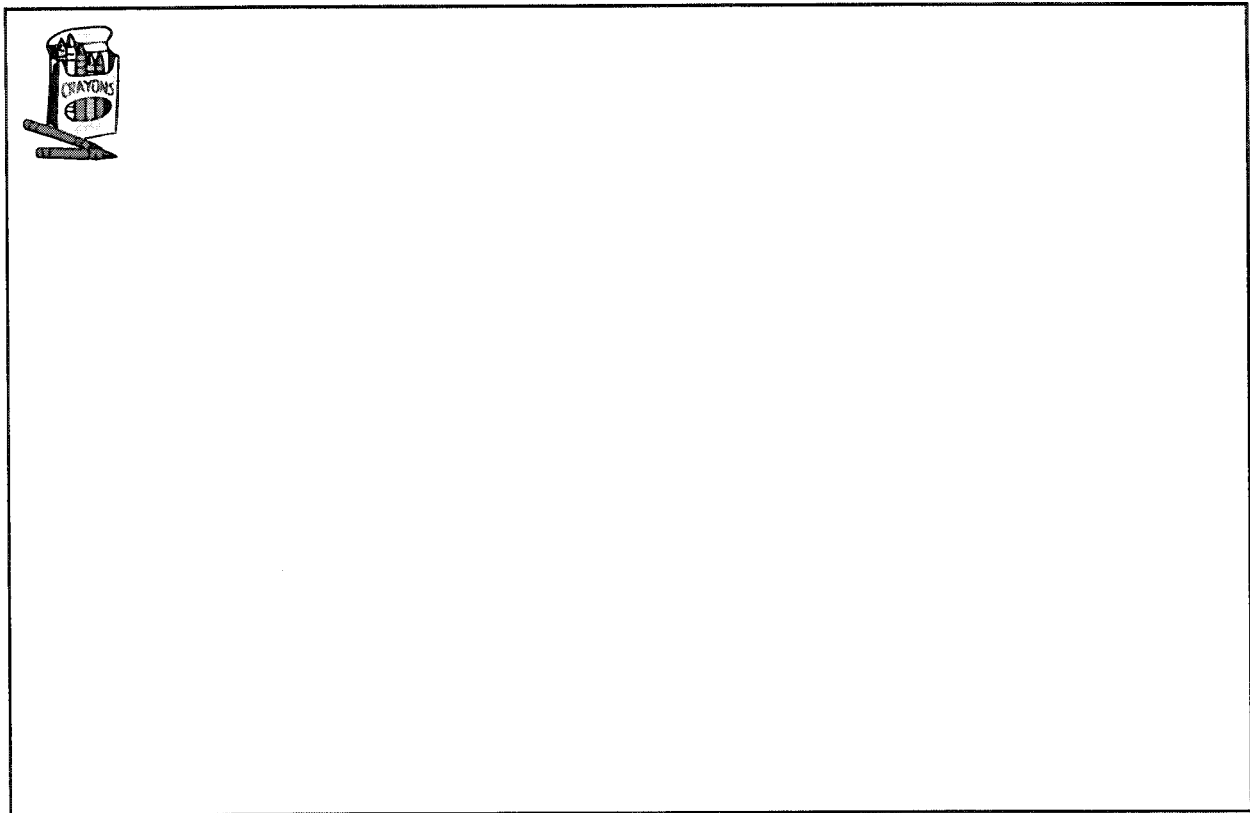


Name _____


Date _____

7

1. Draw your cloud observations.



2. Write a sentence that describes the clouds you observed.



Name _____



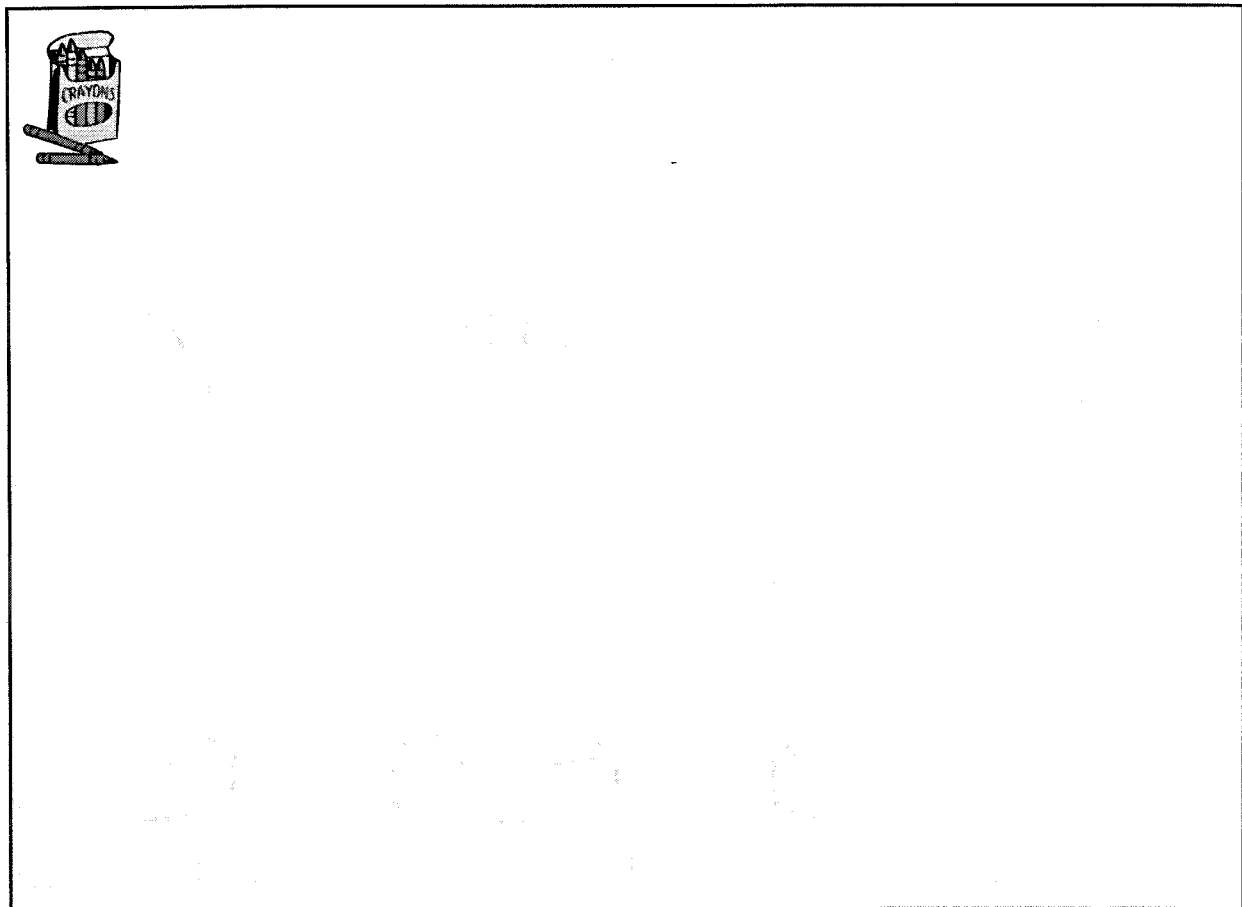
Date _____

.....

Read the three sentences:

1. The sky was grey and cloudy.
2. The clouds changed from white to grey to black.
3. Fluffy white clouds moved across the blue sky.

Choose one sentence and draw a picture of the weather on that day. Label the picture as cloudy, partly cloudy, or clear.





Name _____

Date _____

8

1. Place a check mark in the box which shows what happened for each trial.

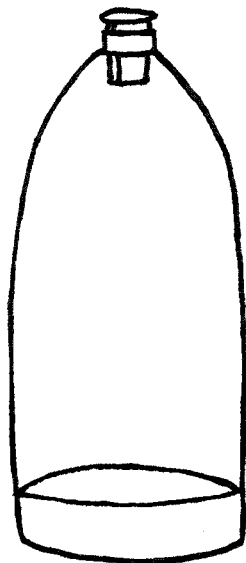


prediction

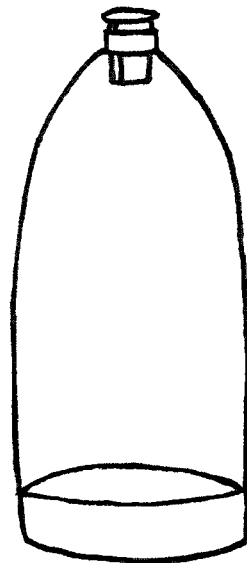
actual

Bottle with Air		Bottle with Air and Water		Bottle with Air, Water and Match	
No Cloud	Cloud	No Cloud	Cloud	No Cloud	Cloud

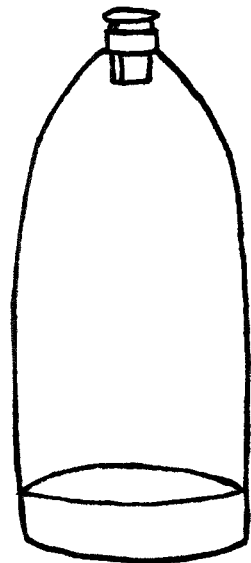
2. Draw what you saw in each bottle.



bottle with air



bottle with air and water



bottle with air, water and match

Name _____



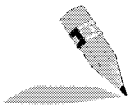
Date _____

8

1. There is not a cloud in the sky. List three things that are needed to form a cloud.



2. Using your experiment, explain how you know that these three things listed in Question #1 are needed to form a cloud.





A C T I V I T Y

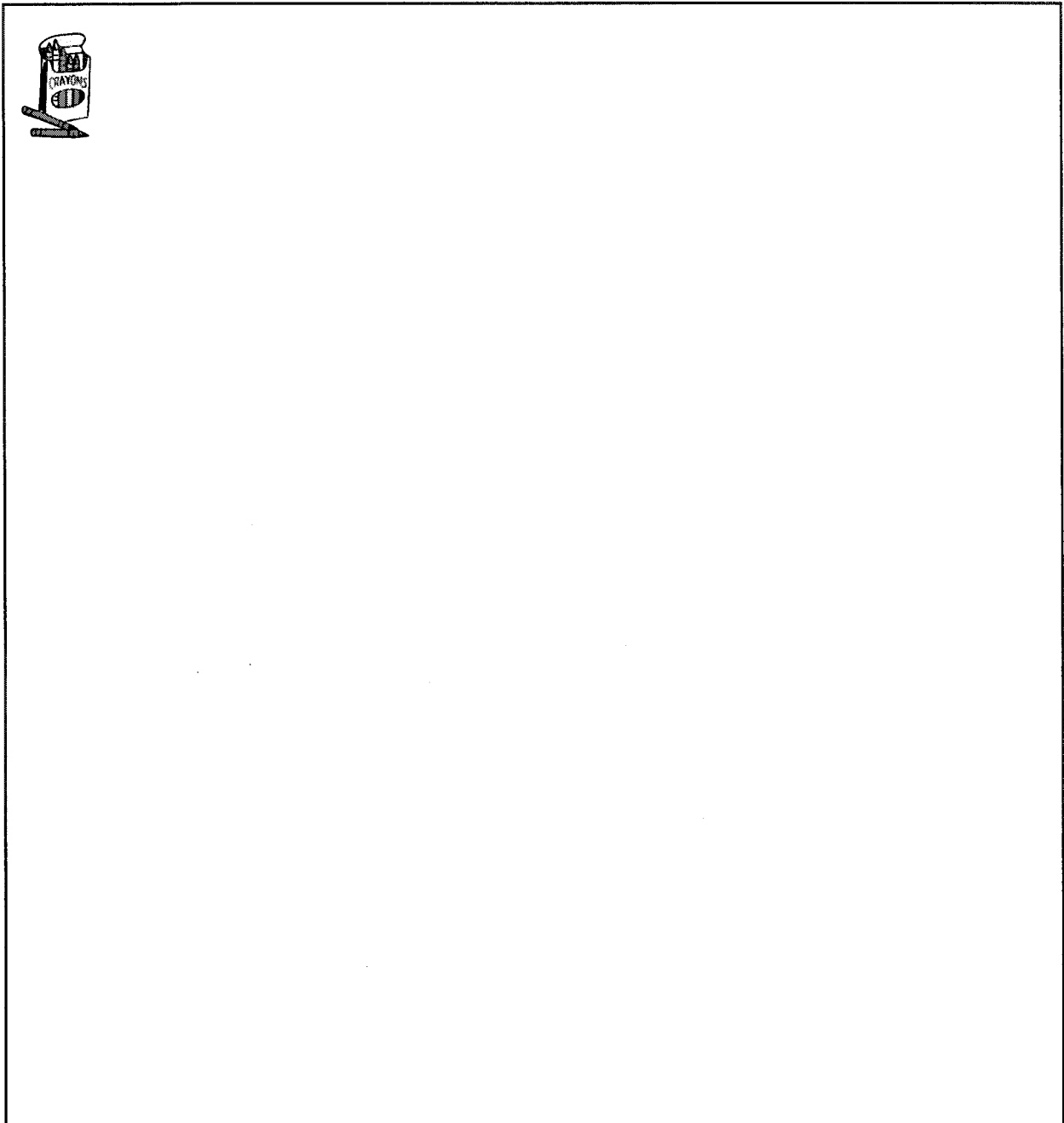
Collecting Rain Data

Name _____

Date _____

9

Draw a picture of your rain gauge. Color the picture to show how much rain you think will be in the rain gauge after the first rain.





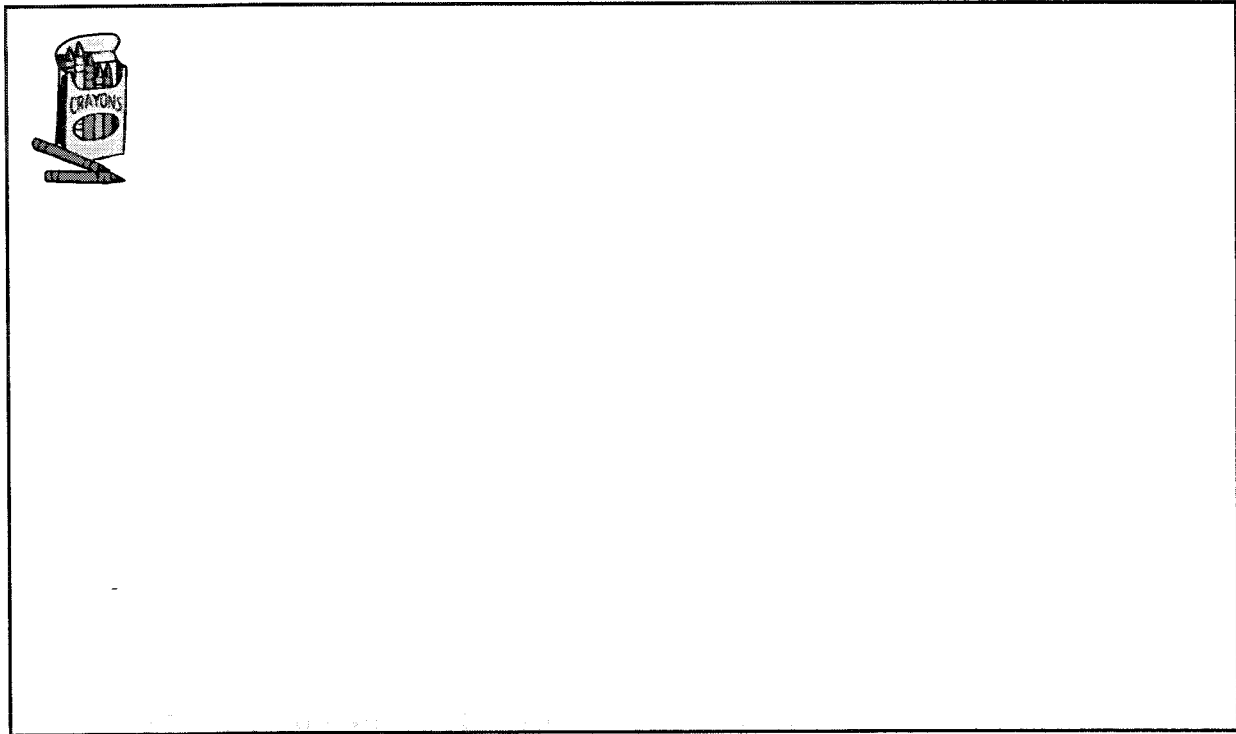
Name _____

Collecting Rain Data (cont.)

Date _____

9

1. It was a rainy day. Draw how the clouds looked that day.



2. Explain where the sun was on that day.



A C T I V I T Y

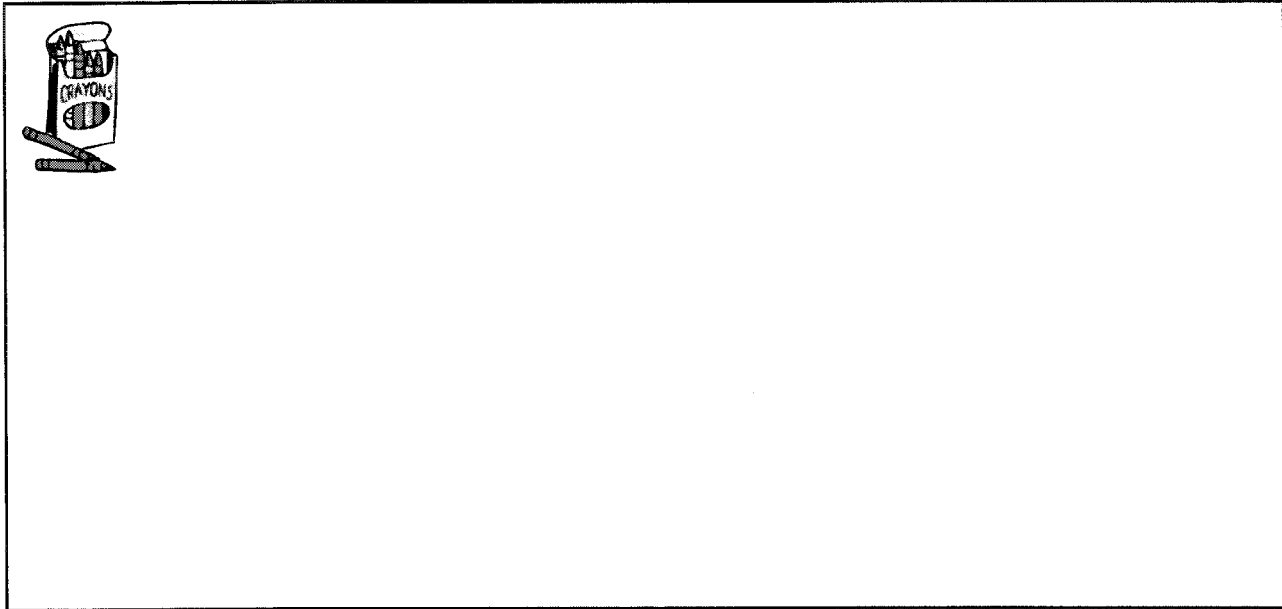
Snowflakes and Hail and Sleet! Oh My!

Name _____

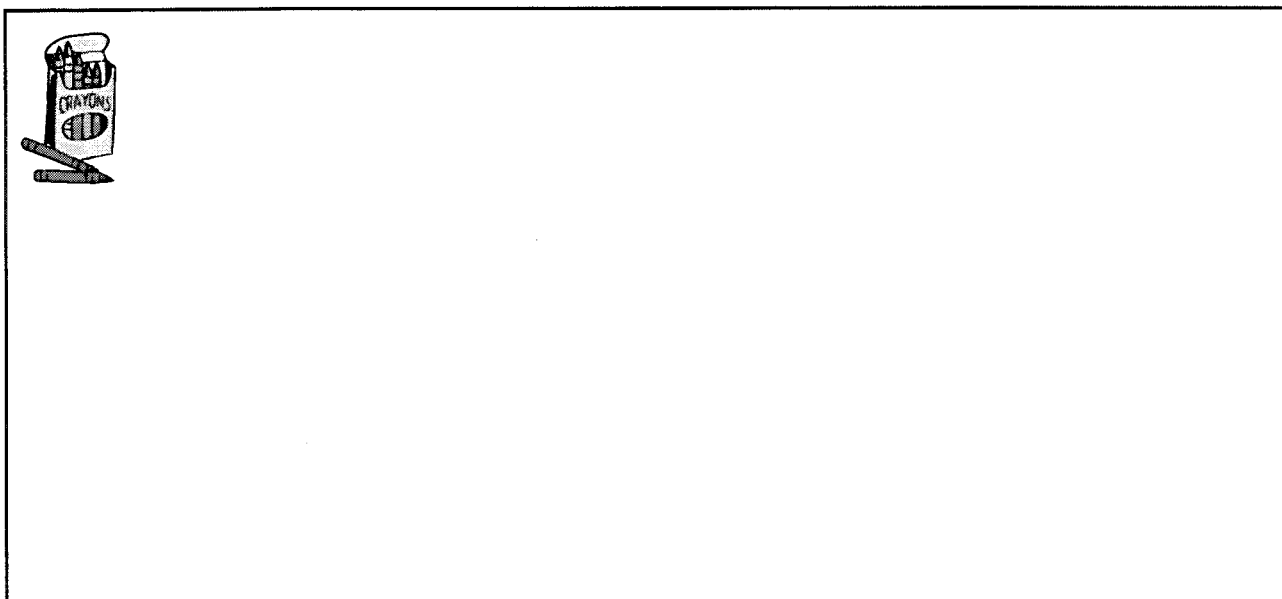
Date _____

10

1. Draw a picture of your cup with snow. Mark the level of the snow. Make a mark where you think the level of the snow will be after it melts.

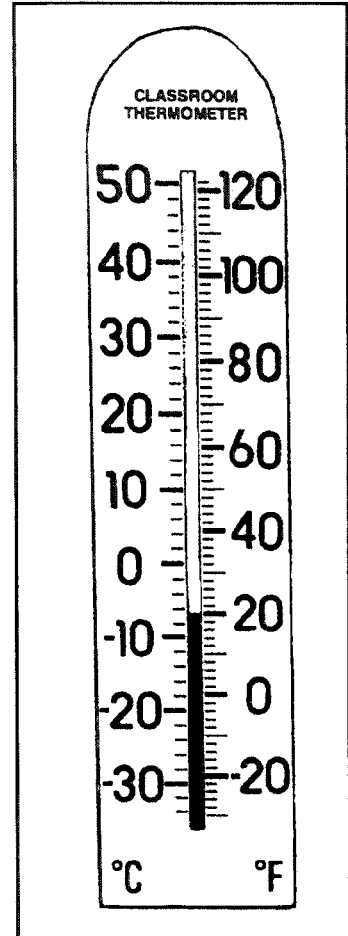
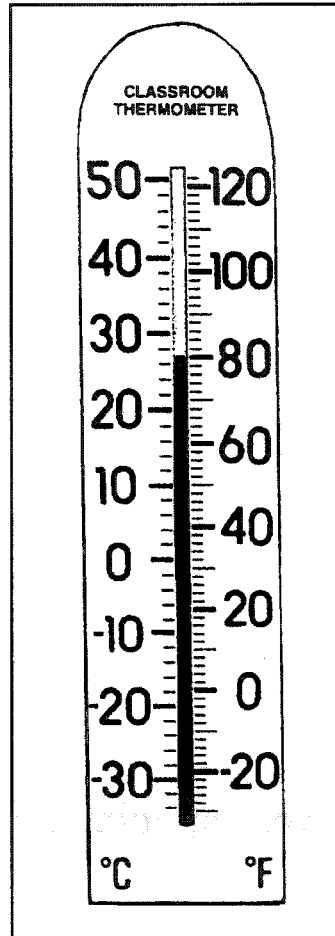
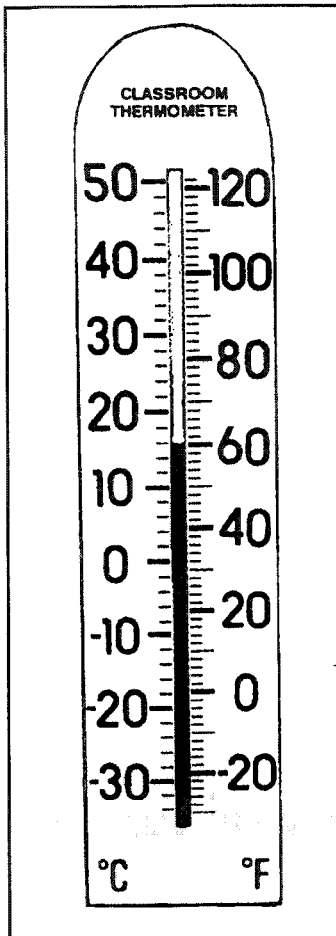


2. Draw a picture of your cup after the snow melted. Mark the level of the melted snow.



Name _____

Date _____



Circle the thermometer that shows when it will snow instead of rain.



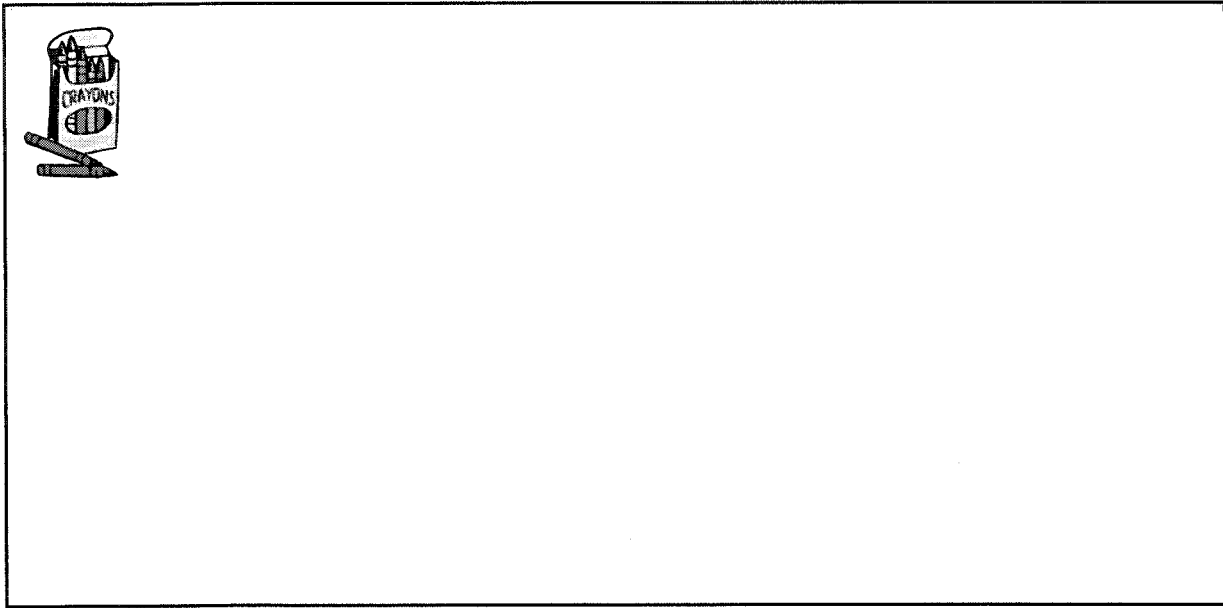
How Do We Know It's Summer?

Name _____


Date _____

11

1. Draw a picture of a summer day.



Write about your picture and tell the temperature, cloud cover, wind, and precipitation of your summer day.

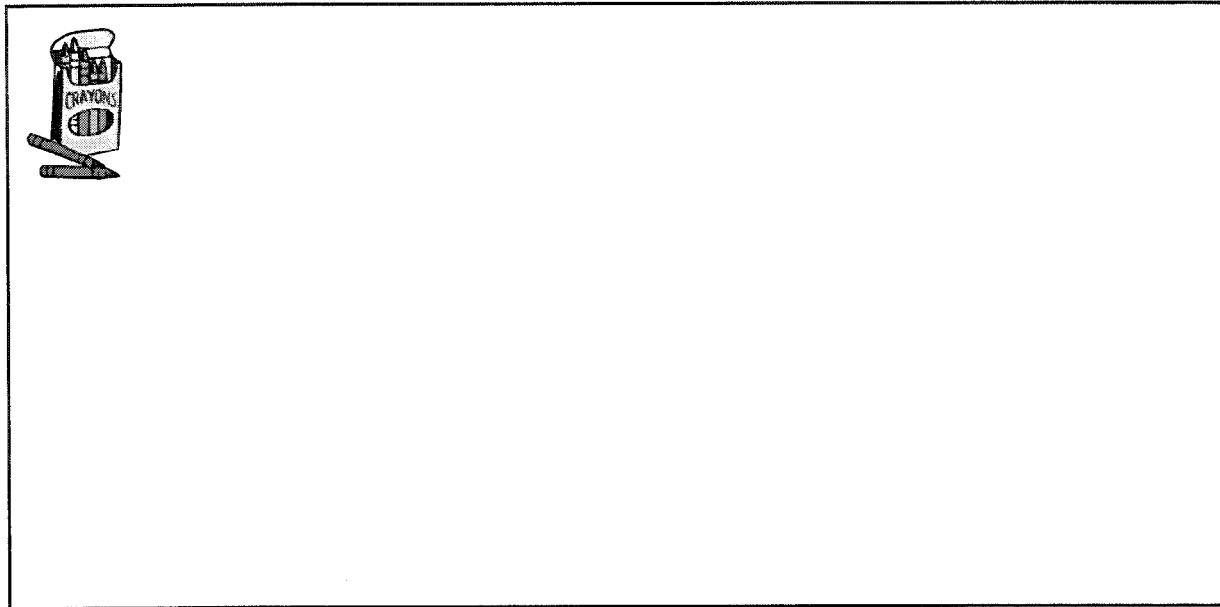


Name _____

Date _____



2. Draw a picture of a thunderstorm.



Write about a safe place during a storm.

Handwriting practice lines consisting of four sets of three horizontal lines (top, dashed middle, bottom). A small illustration of a pen nib is positioned at the start of the first line.

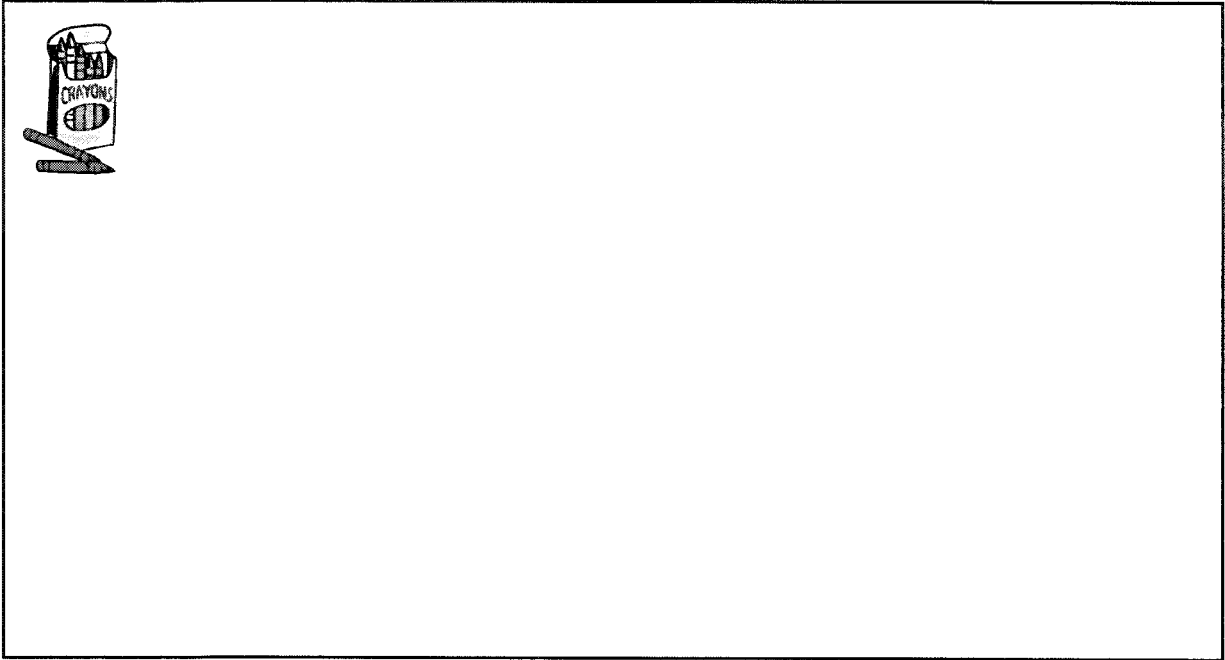


Name _____

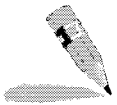
Date _____

12

1. Draw a picture of a fall day.



Write about your picture and tell the different things that people and other animals do in the fall.

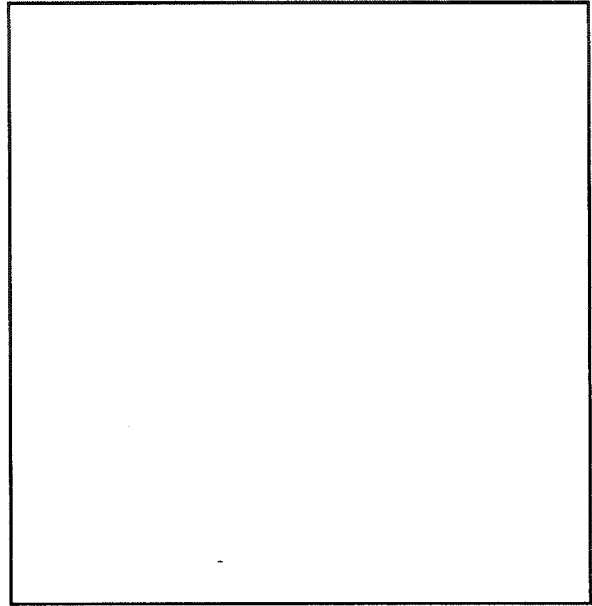
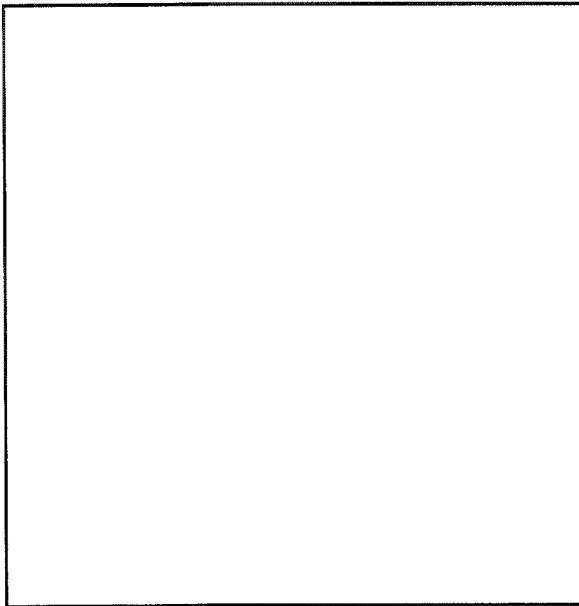


Name _____



Date _____

2. Draw a picture of a tree in the summer. Draw a picture of a tree in the fall.



Write about what the leaves on the tree look like in the fall.





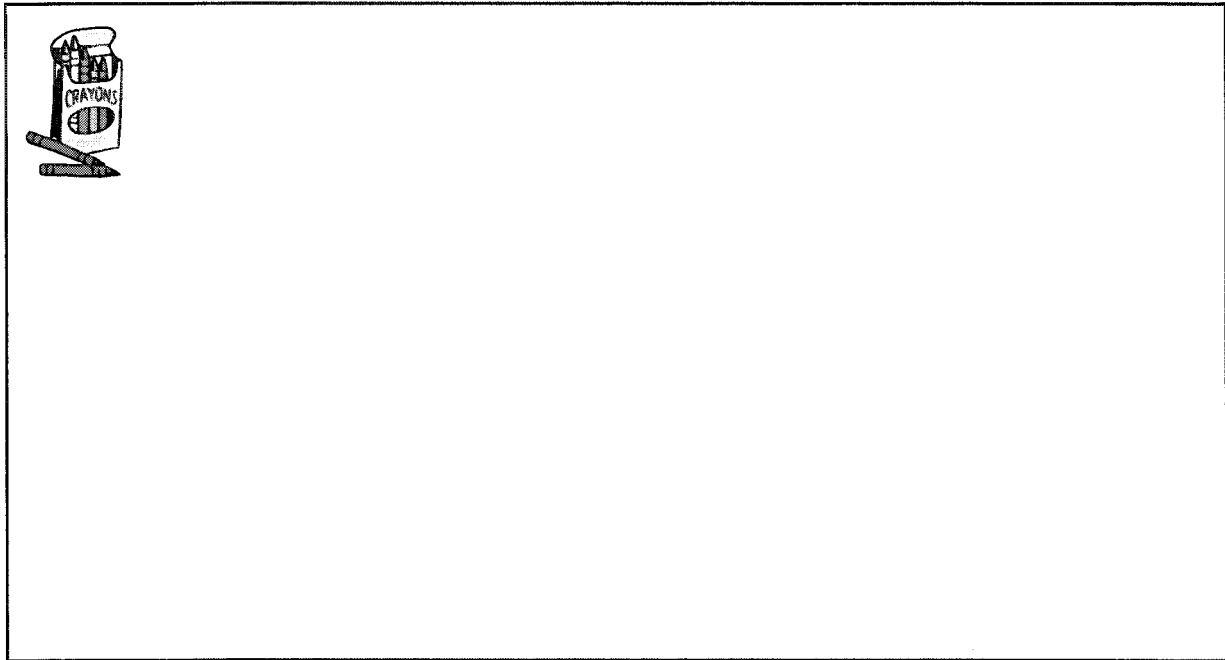
How Do We Know It's Winter?

Name _____

Date _____

13

1. Draw a picture of a winter day. Include a picture of a tree in winter in your drawing.



Write about your picture and tell the different things that people and other animals do in the winter.



Name _____

Date _____



2. Draw or write about a blizzard and what you would do to stay safe.



A C T I V I T Y

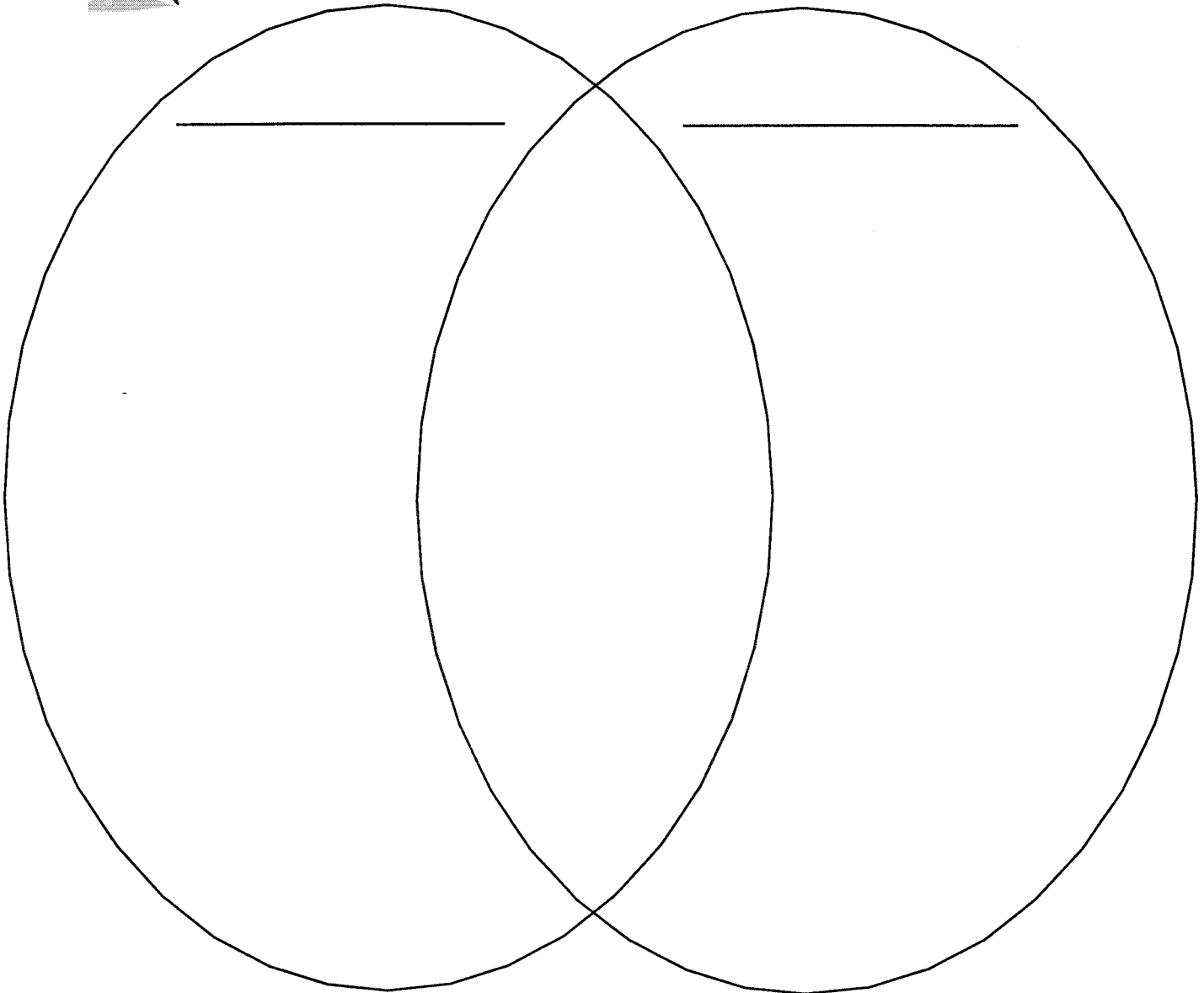
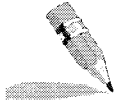
How Do We Know It's Spring?

Name _____

Date _____

14

Choose two seasons that you think are most different. Complete the Venn diagram.

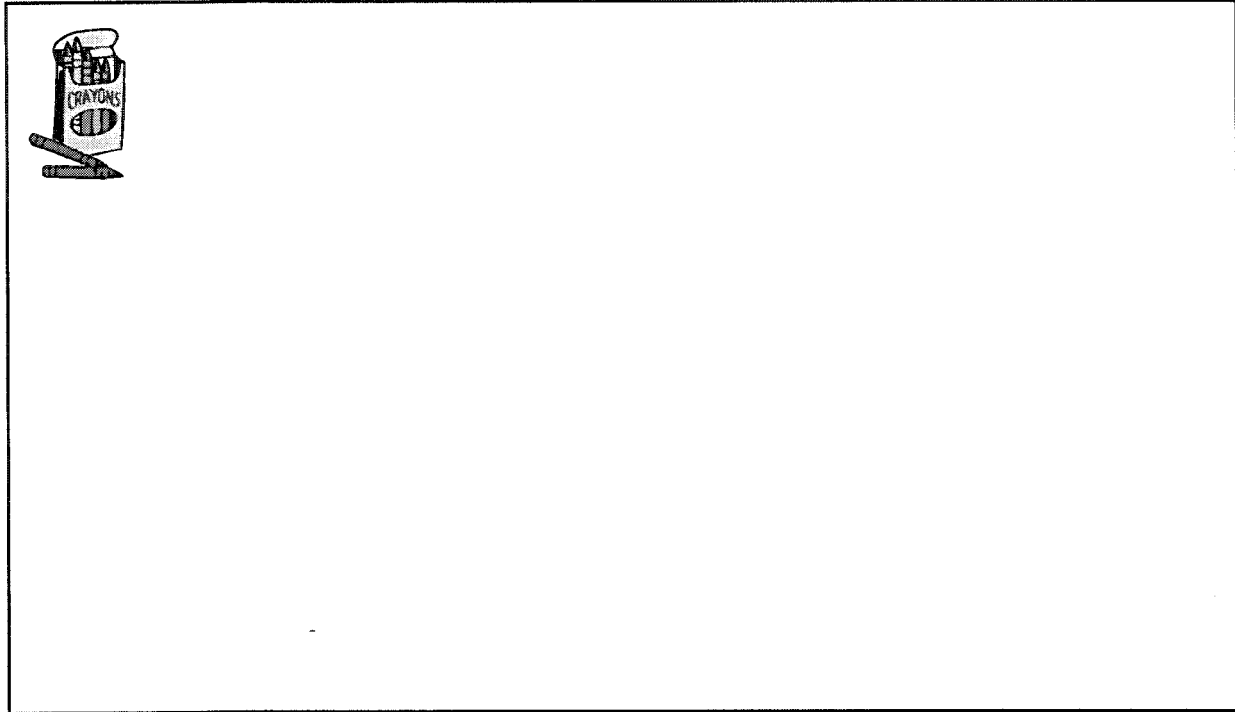


Name _____

Date _____



1. Draw a picture of a spring day.



Write about your picture and tell the different things that people and other animals do in the spring.



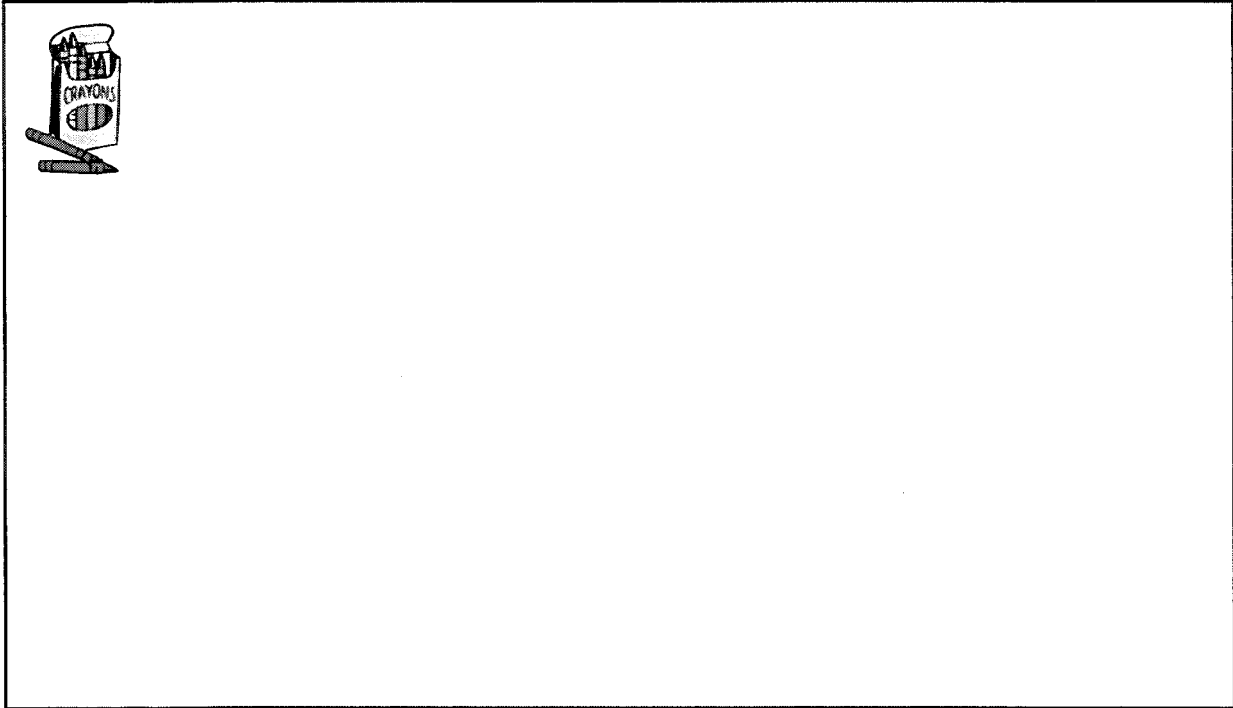


Name _____

Date _____

14

2. Draw a picture of a tree in spring.



3. Name two seasons that you think are the most alike. Tell why you think they are alike.

Name _____

Date _____

ACTIVITY
Making Sense of Our
Weather Data



15

1. Write the question your group is investigating.



2. Write what you found out using the data from the *Weather Watchers Observation Chart*.





Name _____

Date _____

15

Look at the data for one week on the weather chart below.

	Monday	Tuesday	Wednesday	Thursday	Friday
Temperature	78°F 26°C	84°F 28°C	85°F 30°C	78°F 26°C	75°F 24°C
Wind	breezy	breezy	breezy	windy	windy
Cloud cover	clear	clear	clear	cloudy	partly cloudy
Precipitation	0 cm	0 cm	0 cm	rain 2 cm	rain 1 cm

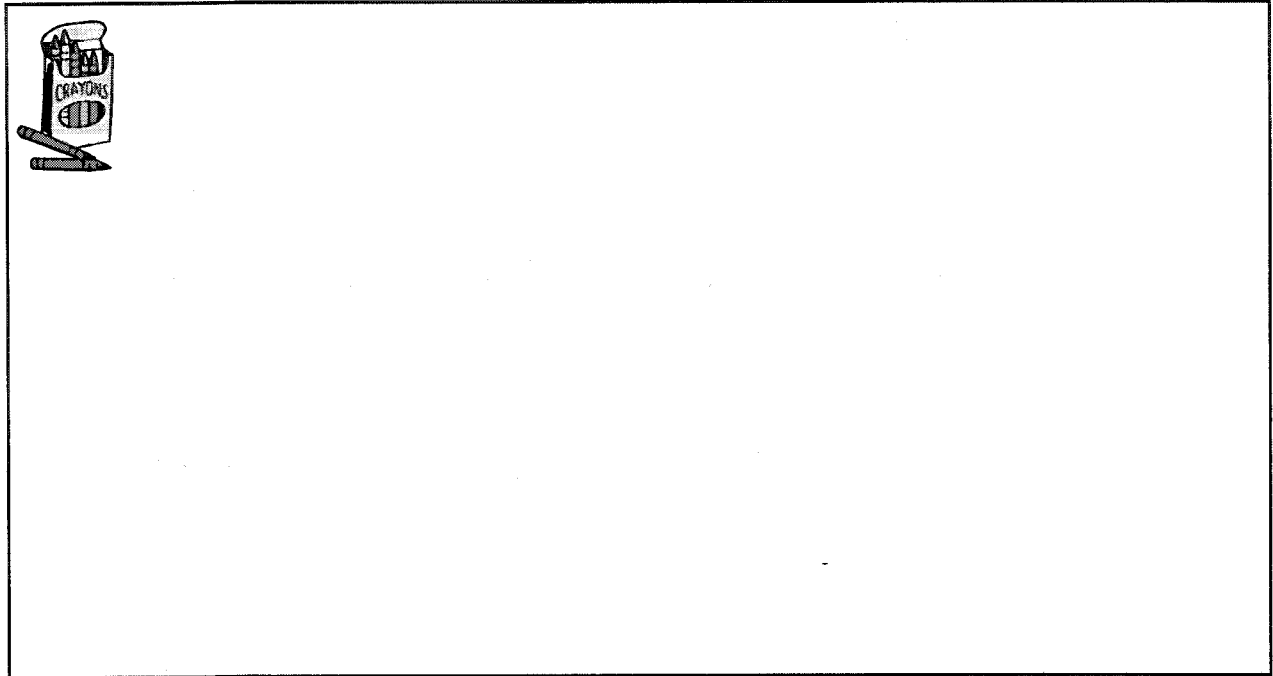
1. What day had the most rain? _____
2. How many days did not have clouds? _____
3. How many days was there wind? _____
4. What was the warmest day? _____

Name _____

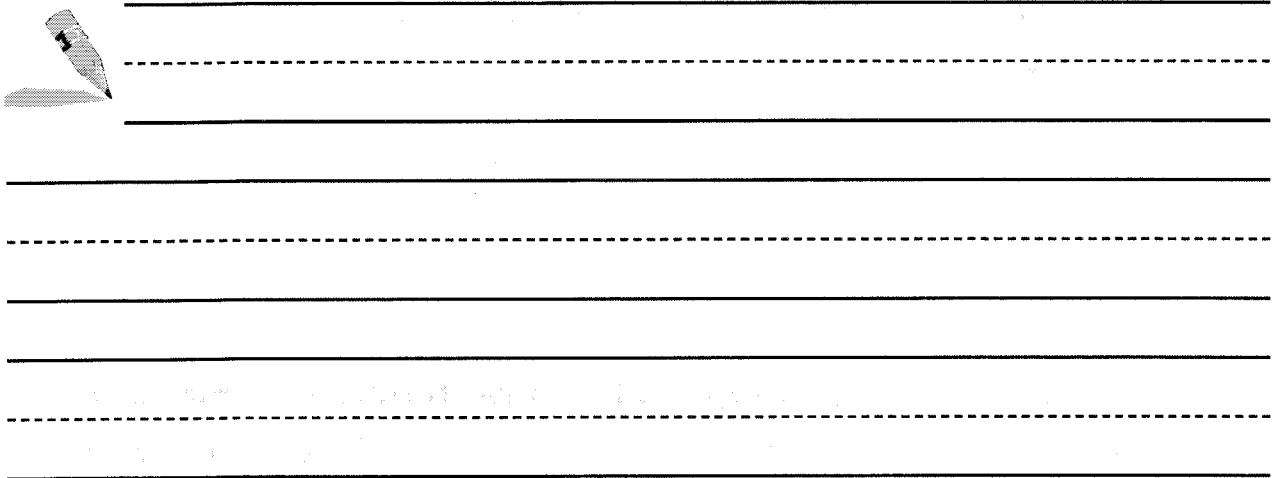
Date _____



5. Draw a picture of the weather on Thursday from the data on the chart. Label your picture.



Write what season you think it might be. Tell why you think that.





Key Terms

air - Air is everywhere. It fills rooms, houses, and surrounds you outdoors and indoors. You cannot see air.

blizzard - A blizzard is a snowstorm or heavy snow that lasts a long time. Blizzards are usually accompanied by strong winds.

breezy - Breezy is a gentle wind. A breeze is air that moves gently.

calm - Calm is to be still and quiet. Sometimes the air around us is calm and does not move much.

Celsius - Celsius is a scale on the thermometer where water freezes at 0° and boils at 100° .

clear - Clear describes a day when there are no clouds in the sky.

cloud - A cloud is made up of tiny water or ice droplets in the air that are usually high above the Earth.

cloud cover - Cloud cover tells how much of the sky has clouds. Cloudy, partly cloudy, clear, and fog are words that tell about cloud cover.



.....

cloudy - Cloudy describes a day when the sky is completely covered with clouds.

cold - Cold describes a day when the sky is completely covered with clouds.

cool - Cool describes a temperature that is somewhat cold. Cool is between cold and warm.

daily weather pattern - A daily weather pattern is the everyday weather conditions that repeat or recur over a period of time.

data - Data is information about something that can be used to find out about different ideas.

evidence - Evidence is what is observed, read, or discovered that supports an idea or fact.

Fahrenheit - Fahrenheit is a scale on the thermometer where water freezes at 32° and boils at 212° .

fall - Fall is one of the four seasons on Earth. It is also called autumn. During fall, the leaves from the trees change color and fall to the ground.



Key Terms (cont.)

foggy - Foggy describes a weather condition with tiny droplets of water that float in the air near the ground.

freezing rain - Freezing rain occurs when the air temperature near the ground is near or at 0°C and the rain droplets turn to ice instead of snow or hail.

hail - Hail is small lumps of ice that fall during thunderstorms.

hot - Hot describes a very high temperature.

lightning - Lightning is the flashing of light caused by electrical charges that move from cloud to cloud or cloud to Earth.

observation - An observation is the gathering of information when something is looked at closely.

partly cloudy - Partly cloudy describes a day when there is some clear sky and some clouds.

precipitation - Precipitation happens when water in some form falls from the clouds to the ground. Rain, snow, sleet, and hail are forms of precipitation.



.....

rain - Rain is water droplets that fall from the clouds.

rain gauge - A rain gauge is an instrument used to measure the amount of rainfall or snowfall.

season - A season is one of four times of the year. Spring, summer, fall and winter are seasons.

severe weather - Severe weather is any weather condition that can cause harm or damage.

sleet - Sleet is frozen or partly frozen rain.

snow - Snow is small white crystals of ice formed from water vapor in the air.

spring - Spring is one of the four seasons on Earth. It happens between winter and summer. During spring, many plants begin to grow as the temperature warms.

summer - Summer is one of the four seasons on Earth. It happens between spring and fall and is the warmest season of the year.



Key Terms (cont.)

temperature - Temperature is a measure of how hot or cold something is. In weather, temperature is the measure of how hot or cold the air is.

thermometer - A thermometer is a tool that measures how hot or cold something is. The thermometer measures temperature.

thunderstorm - A thunderstorm is a weather condition with thunder and lightning.

tornado - A tornado is a violent whirling wind that is described as a funnel cloud. Tornadoes move over land in a narrow path.

warm - Warm describes a temperature that is somewhat hot. Warm is between cool and hot.

water vapor - Water vapor is water that cannot be seen in the air. When it cools, it can form clouds in the air.

weather - The weather is a description of what happens in the air, temperature, wind, clouds, and precipitation.



.....

weather conditions - Weather conditions refer to the different types of weather, such as temperature, cloud cover, precipitation, and wind.

weather observations - Weather observations use the senses and tools to describe weather.

wind - Wind is air that is moving.

wind sock/wind vane - A wind sock/wind vane is a weather instrument that shows how hard and which way the wind blows.

windy - Windy is a strong wind.

winter - Winter is one of the coldest seasons of the year. It comes between fall and spring.

