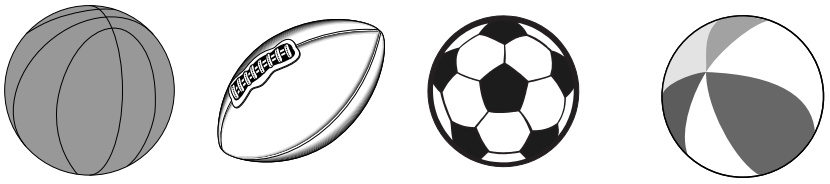
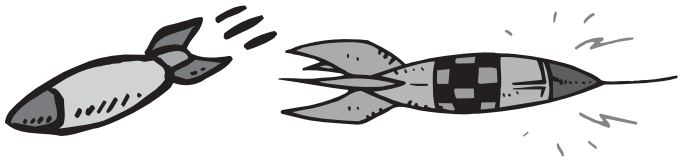
Name _____

MATH EXTENSION A

INVESTIGATION 1: EXPLORING AIR

Propellers	
Balls	
Rockets	

Our Museum of Air Toys

Look at the pictures.
Are there more balls or propellers in the museum?

_____

Are there more balls or rockets in the museum?

_____

_____ propellers + _____ rockets = _____ .

_____ balls — _____ propellers = _____ .

Write a number sentence to show how many air toys the museum has all together.

Name _____

MATH EXTENSION B

INVESTIGATION 1: EXPLORING AIR

Ms. Chin wants to set up a learning center.
She has four basins full of water.
Four students can work at each basin.
Ms. Chin has 22 students in her class.

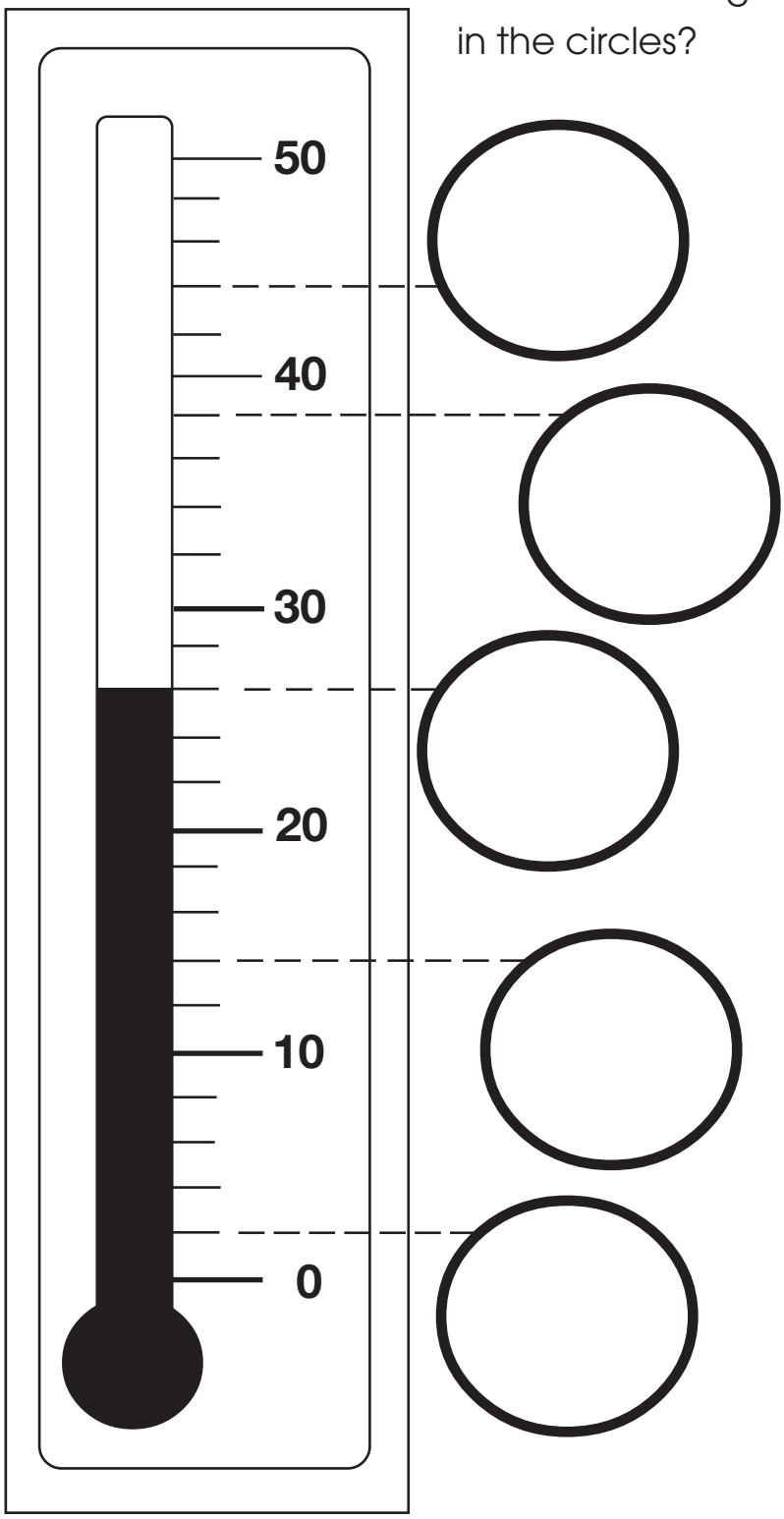
Will all of the students be able to work at the center at the same time?

Name _____

MATH EXTENSION A

INVESTIGATION 2: OBSERVING WEATHER

Count by twos!
What numbers go in the circles?

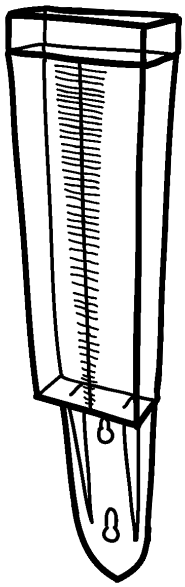


What temperature is it?

Name _____

MATH EXTENSION B

INVESTIGATION 2: OBSERVING WEATHER



Ms. Long's class put their rain gauge outside to collect water during a big rainstorm. They measured 2 inches of rain from the storm.

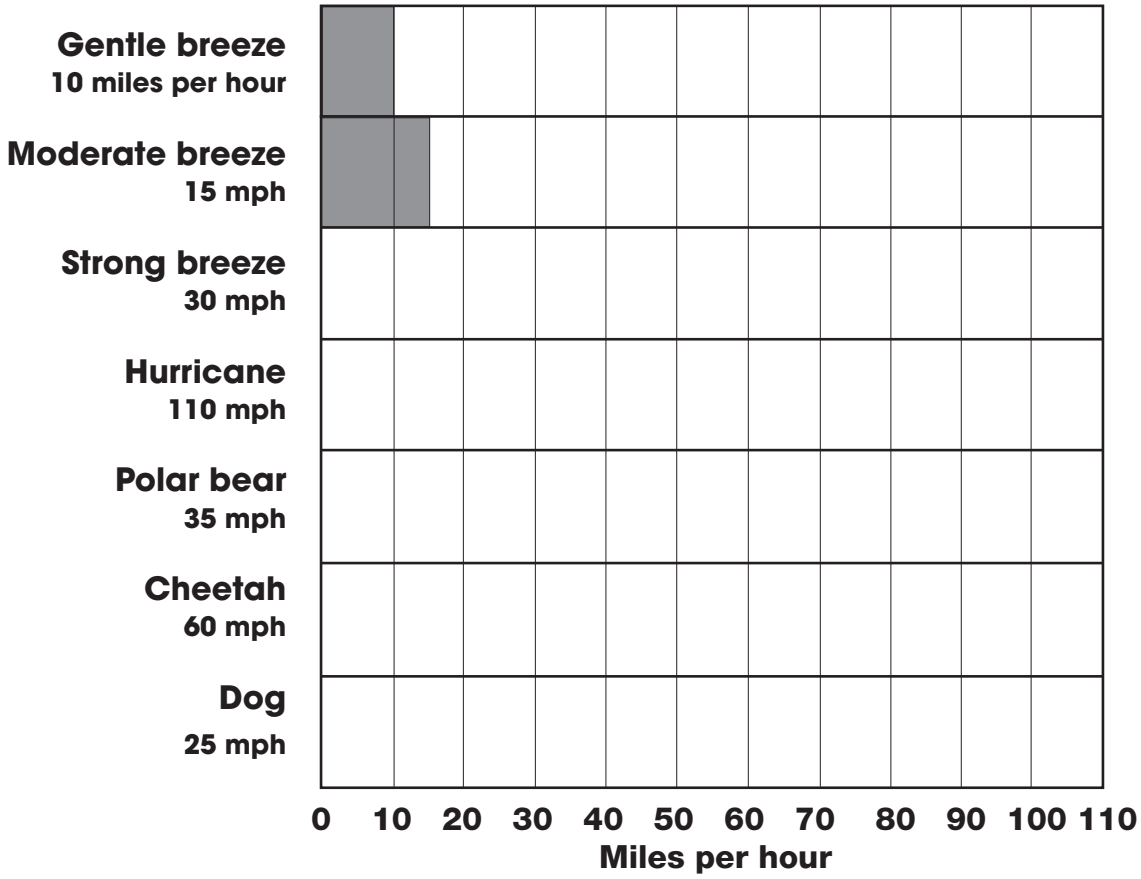
Where this class lives, the usual rainfall for the whole year is 26 inches. If all rainstorms brought 2 inches of rain, how many more storms do they need to reach the usual amount of rain for the year?

Name _____

MATH EXTENSION A

INVESTIGATION 3: WIND EXPLORATIONS

Fill in the bar graph to show how fast things move. The first two bars on the graph are already done.



Which is faster?

Use < or > to show which moves faster and slower. For example,

gentle wind **<** **strong wind** **strong wind** **>** **gentle wind**

gentle breeze ( ) dog

moderate breeze ( ) bear

hurricane ( ) cheetah

Name _____

MATH EXTENSION B

INVESTIGATION 3: WIND EXPLORATIONS

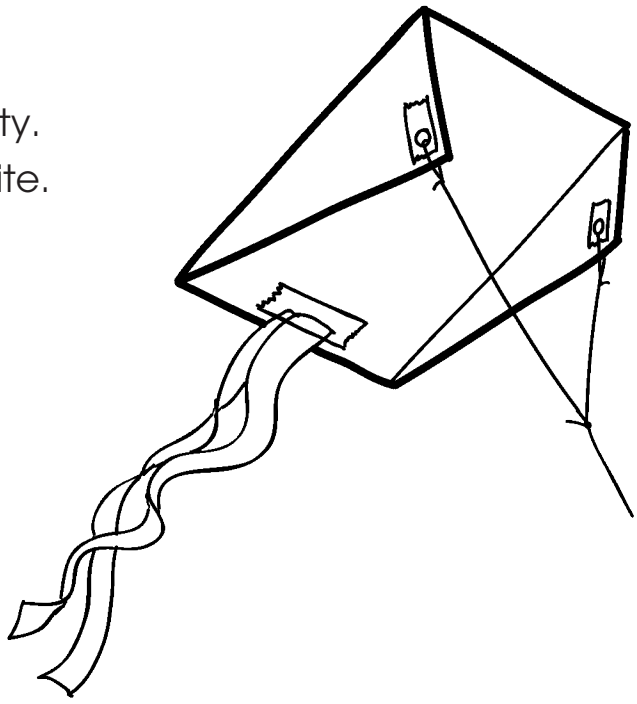
Markita wants to have a kite party.
She has 5 friends coming to the party.
Here is what she needs to make 1 kite.

1 piece of paper

3 strings

3 pieces of tape

2 strips of crepe paper for tails



How many pieces of paper, strings, pieces of tape, and strips of crepe paper will she need for 6 kites?

Name _____

MATH EXTENSION A

INVESTIGATION 4: LOOKING FOR CHANGE

Students in three towns recorded the rain that fell in seven storms. Which town had the most rain?

Town	Storm 1	Storm 2	Storm 3	Storm 4	Storm 5	Storm 6	Storm 7
Dripsville	1 cm	1 cm	3 cm	5 cm	2 cm	1 cm	2 cm
Puddleton	1 cm	2 cm	2 cm	4 cm	5 cm	1 cm	1 cm
Misty	1 cm	2 cm	4 cm	4 cm	3 cm	2 cm	1 cm

Name _____

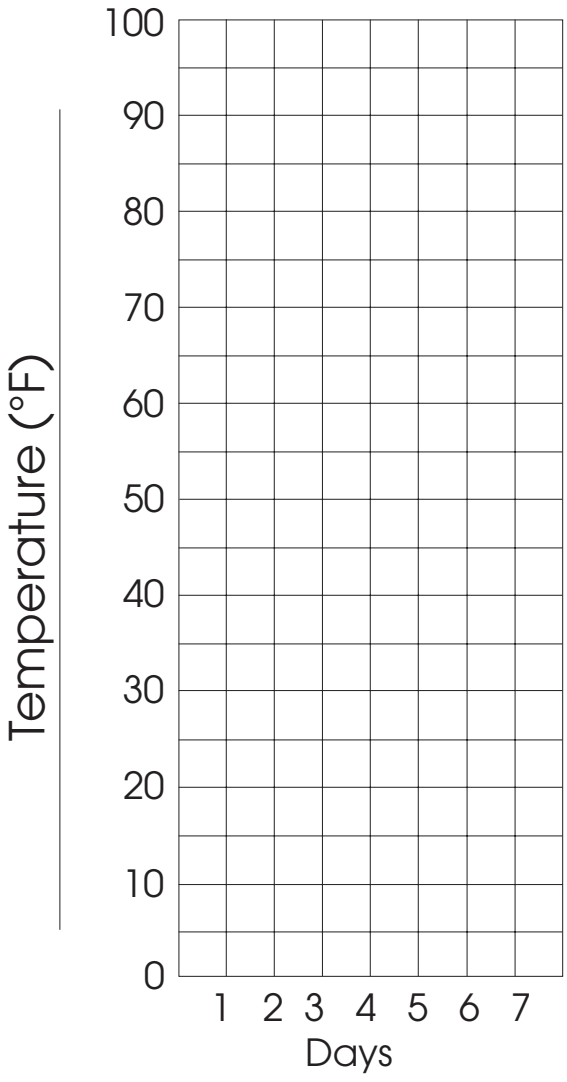
MATH EXTENSION B

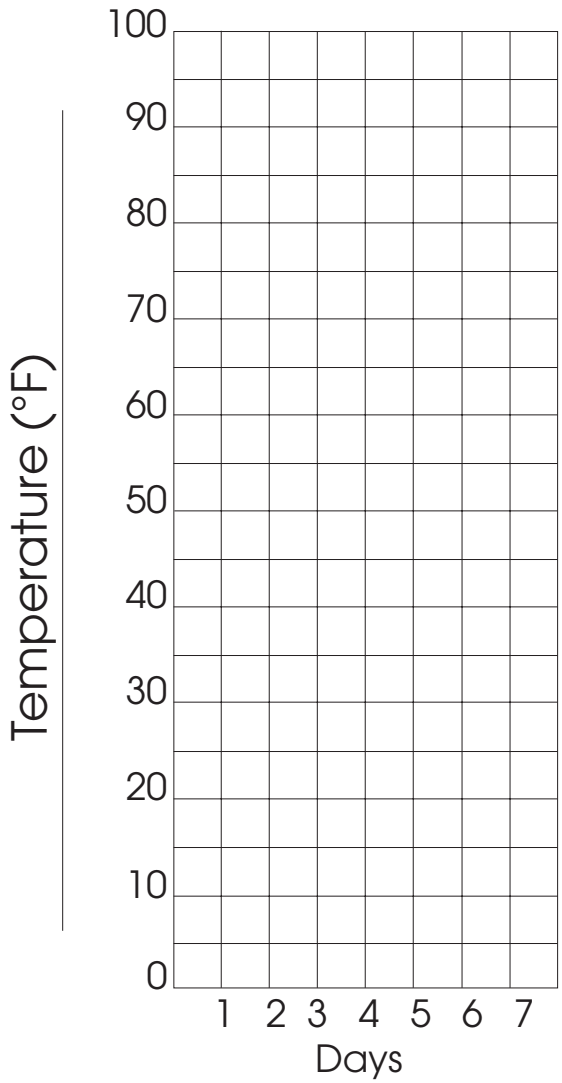
INVESTIGATION 4: LOOKING FOR CHANGE

A class in Denver, Colorado, recorded temperatures for 2 weeks during the year. They forgot to label which temperatures went with which month. Make a line graph to show the temperatures recorded for each week, then decide which week was recorded in the winter and which in the summer.

Week 1	
1	40°F
2	25°F
3	20°F
4	35°F
5	40°F
6	50°F
7	55°F

Week 2	
1	80°F
2	90°F
3	90°F
4	95°F
5	80°F
6	85°F
7	75°F





Name _____

HOME/SCHOOL CONNECTION

INVESTIGATION 1: EXPLORING AIR

Air Toys

Look around home and see if you can find a toy that uses air to make it work. If you can't find one, see if you can invent one.

Draw a picture of the toy you found or the one you invented. Explain how it works.

Name _____

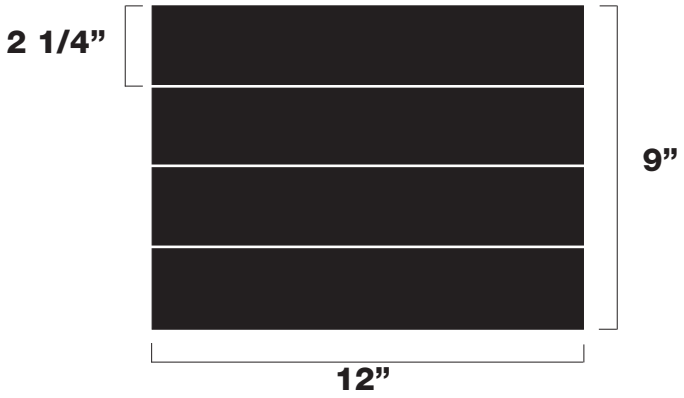
HOME/SCHOOL CONNECTION

INVESTIGATION 2: OBSERVING WEATHER

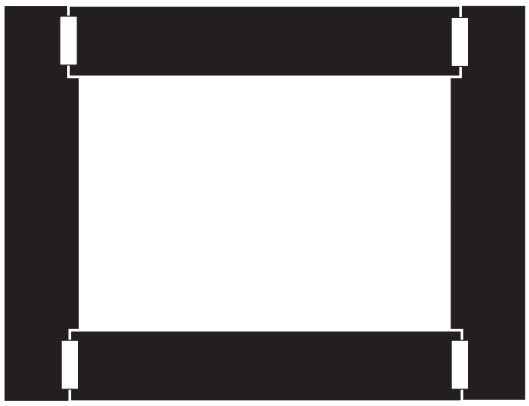
Cloud Window

Parents: Make a cloud window with your child using these directions.

1. Cut a 9″ × 12″ sheet of dark construction paper (shopping bag will do) into four equal strips.



2. Form a rectangle with the four strips, lapping one edge over another about 1/4″. Tape it together.



3. Tape the window to a glass window in your house where you will be able to see clouds in the sky.

4. Share your observations with the class next time you go to school.

Name _____

HOME/SCHOOL CONNECTION

INVESTIGATION 3: WIND EXPLORATIONS

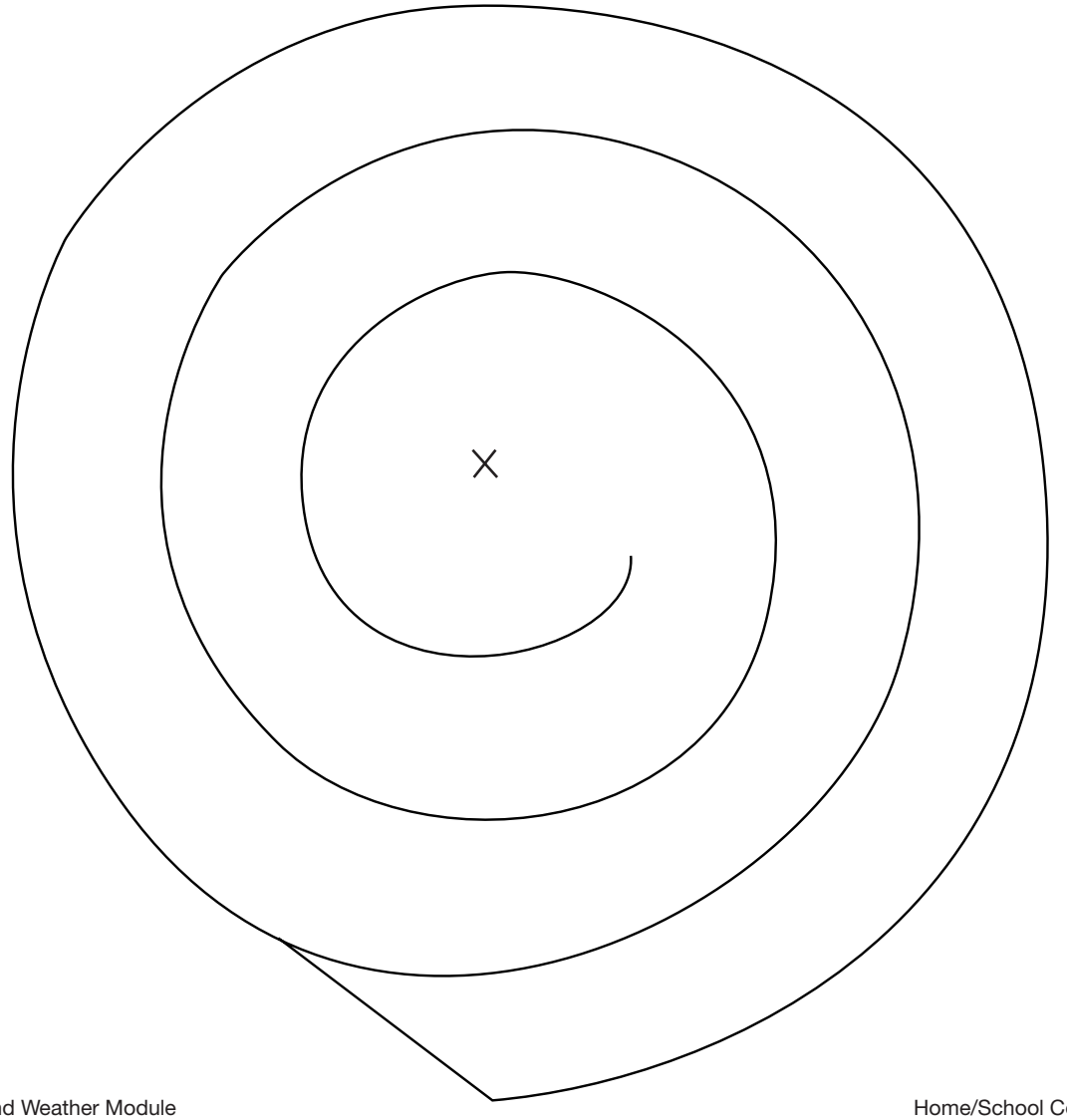
Whirligigs

Parents: Make a whirligig with your child using these directions.

Materials: Scissors, tape, and a piece of string

Directions

1. Cut out the whirligig along the spiral line.
2. Tape a piece of string to the X in the middle of the whirligig.
3. Hang the whirligig by the string and blow on it. What does it do?
4. Use the whirligig to find places where the air is moving. Try outside, by a window, or in front of a fan. Where does it move the fastest?



Name _____

HOME/SCHOOL CONNECTION

INVESTIGATION 4: LOOKING FOR CHANGE

Parents: Read this story with your child. Then have him or her draw a picture of Harry in his new clothes.

Harry was always wearing the wrong clothes. When he put on his raincoat, it was warm and sunny outside. When he wore his shorts, the outside temperature was cold. When he decided not to take a jacket with him to school, the wind blew hard.

So Harry decided he wasn't going to go outside. Soon Harry became very, very lonely. All of Harry's friends wanted to play outside. Harry was left alone, wearing the wrong clothes for the weather.

Then Harry got a grand idea! He would design a set of clothes that he could wear outside at any time and in any weather. If it was sunny and warm, Harry could wear his new clothes. If it was windy and rainy, Harry could wear his new clothes. Even if it was snowing, Harry could wear his new clothes!

So, Harry set about designing his new wardrobe.

Finish the story and draw a picture of Harry's all-weather wardrobe.

- What kind of clothing would Harry need?
- What kinds of weather would Harry need to think about?
- How can Harry wear the same thing in all kinds of weather?