

Take Home Booklet

Weather and the Water Cycle



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Dear Family,

Our class is studying weather patterns. Your child has learned the role the Sun plays as a major source of energy for the Earth and in the water cycle. We have also looked at lunar and seasonal cycles.

Your child is also learning many new vocabulary words that describe weather patterns. Help your child to make these words a part of his or her own vocabulary by using them when you talk together about the weather outside.

WORD

DEFINITION

weather	the condition of the atmosphere at a place for a short period of time
pattern	a set of characteristics that are displayed repeatedly, over and over again
climate	the general pattern of weather of an area over a long period of time
air pressure	the force exerted as a result of the weight of the atmosphere
sun	the star at the center of the solar system
wind	the movement of air
cycle	a series of events that repeat themselves in the same order
water cycle	the movement of water on Earth, water is always changing state and moving from one place to another

The following pages include activities that you and your child can do together. By participating in your child's education, you will help to bring the learning home.



??? Which of the 50 states has never had an earthquake ???

North Dakota

Matching

Draw a line from the weather symbol in the first column to its meaning in the second column.

SYMBOL MEANING

a. 	Stationary front
b. 	Area of high air pressure
c. 	Snow
d. 	Warm front
e. 	Sunny
f. 	Rain
g. 	Area of low air pressure
h. 	Cold front
	Thunderstorms

Helper's Signature _____

Helpers, please rate the activities in this booklet:

1-poor 2-needs improvement 3-good 4-excellent
(Please circle one number on each line.)

My child's performance on these activities was: 1 2 3 4

The quality of these activities was: 1 2 3 4

Once you have completed all the activities and experiments, complete this section, cut along the dotted line, and return it to your teacher.

Student's Name: _____

I worked with my _____ (ex: mom, aunt, brother, guardian) on these projects.

Fun Fact

Air has weight. Air pressure changes when air becomes heavier or lighter. The average weight of air is about 15 pounds on every square inch of your body.

Answers: a. area of high pressure, b. area of low pressure, c. warm front, d. cold front, e. stationary front, f. snow, g. rain, h. thunderstorms

Family Science Activity

Tornado in a Jar

Materials:

- ◆ mayonnaise jar or a canning jar
- ◆ clear liquid soap
- ◆ vinegar
- ◆ water



Steps:

- a. Fill the jar about three-quarters full of water.
- b. Put a teaspoon of the liquid soap into the jar.
- c. Also, add a teaspoon of vinegar into the jar.
- d. Tighten the lid and shake the jar to mix up the ingredients.
- e. Now, swirl the jar in a circular motion.
- f. The liquid will form a small tornado.

If you want to get creative, you can also use food coloring to make the tornado have a color and glitter to represent debris.

Talk About It

The swirling motion you give the bottle forms a vortex and is an easy way to create your own tornado.

Check out the online games on this site to have more fun with Science:

<http://classroom.jc-schools.net/basic/sciweather.html>