BATTLE CREEK AREA

Mathematics & Science Center

Student Journal
2ES

Earth's Land and Water

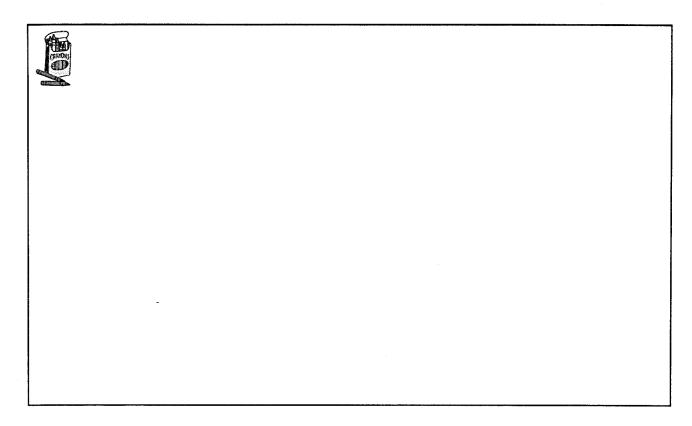


A Second Grade Unit supporting the Michigan Science K-7 Content Expectations

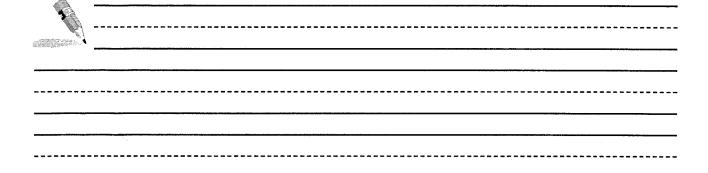
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1. Draw a picture of what the planet Earth looks like from space. Color the land green and the water blue.



2. Write why astronauts call the planet Earth the "big blue marble."

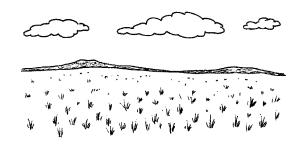


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1. Draw a line to match each picture to the correct term of that surface feature.



hill



plain



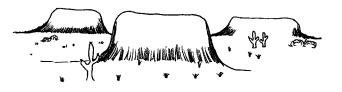
plateau



valley



mountain



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I Adille	Land		Earth		h	(cont.))	5	. (
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2. Choose one surface feature you would like to visit and describe what you think you might see.

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Complete the Landforms Chart: Draw a picture of the landform and write a description of the landform.

Landform	Draw the Landform	Write a Description of the Landform
mountain		
hill		
valley		

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Complete the Landforms Chart: Draw a picture of the landform and write a description of the landform.

Landform	Draw the Landford	1
plain		-
plateau		

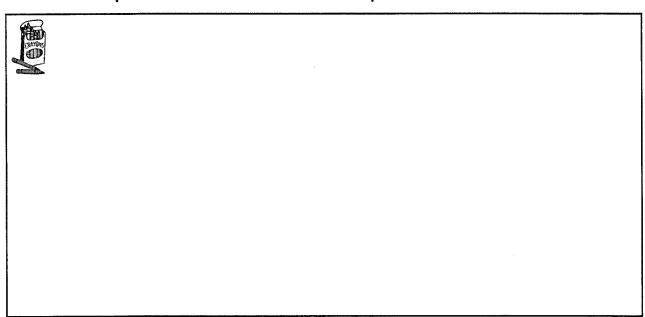


Major Landforms (cont.)

Date _____

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1. Draw a picture of a mountain, plateau, and hill.

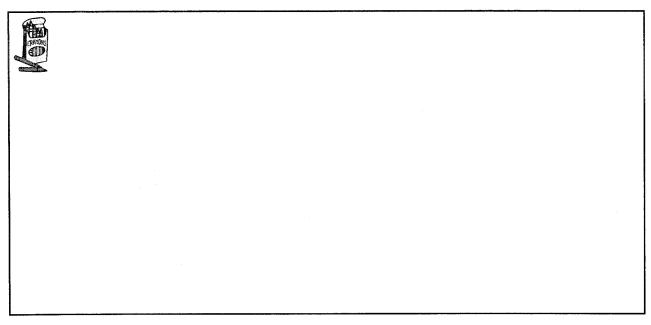


Write how they are alike and how they are different.

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Name		J	0	U	R	Ν	Α	L	
I value	Major	Lan	andforms			(cont.)			
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2. Draw a picture of a plain and valley.



Write how they are alike and how they are different.

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J O U R N A L

Major Bodies of Water on Earth

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Date _____

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Where Does A Raindrop Go? Path 1

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Major Bodies of Water on Earth (cont.)



Date ______Earth (cont.)

4

Where Does A Raindrop Go? Path 2

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Major Bodies of Water on Earth (cont.)

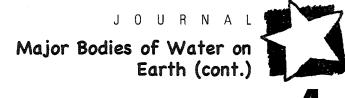
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3. Draw a picture of the water as it drips on the landforms.

Name	



Date	Earth (cont.)
	4
how bodies of water ar	

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ACTIVITY

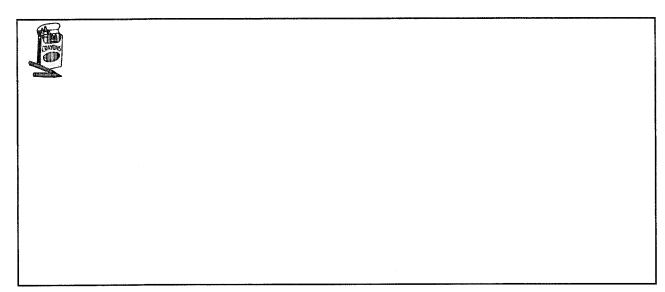
Snow and Ice Melt on the Mountain

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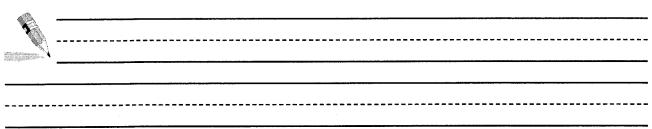
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1. Draw a picture of the sand tray and ice for this investigation.



2. Write the question the class is investigating.

3. Write what you think will happen.



Name		J	0	U	R	N	Α	L	3	
	Snow									
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1. Complete the chart and write the properties of water as a liquid. Give examples of water found on Earth as a liquid.



Properties of Water as a Liquid	Examples of Water as a Liquid
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JOURNAL

Snow	and	Ice	Melt	on	the
Moun [*]	tain	(con	t.)		

Dat	e	

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2. Complete the chart and write the properties of water as a solid. Give examples of water found on Earth as a solid.



Examples of Water as a Solid		

Name Date	Snow and Ice Melt on the Mountain (cont.)
top of mountains melt	when the snow and ice on the in the springtime.
4. Write what would ha snow and ice on top of	ppen if there was too little the mountains.

6	Plants Make the Difference	Name Date
-	1. Draw a picture of your model of a hillside BEFORE water ran down it.	2. Draw a picture of your model of a hillside AFTER water ran down it.

3. Write what happened to the soil on your model.

Name	J O U R N A L				
Date	Plants Make the Difference (cont.)				
	6				
1. Draw a picture of your landscape model with grass growing in the soil.	2. Draw a picture of your landscape model AFTER the water ran down it.				
3. Write what happened to model with grass. How was model without grass?					

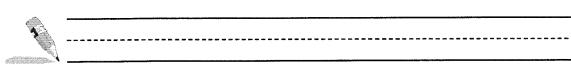
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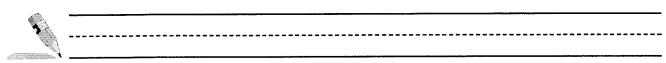
Water In Pebbles and Sand

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1. Predict how many tablespoons of water can be added to the cup of pebbles.



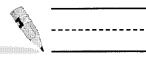
2. How many tablespoons of water were actually added to the cup of pebbles?



3. Draw a picture of the cup of pebbles and show where the water went.



Write where the water went.



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1.	Pr	edic	t h	ow	many	tablespoons	of	water	can	be	added
4	to	the	cup	of	sand.	,					



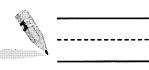
2. How many tablespoons of water were actually added to the cup of sand?



Draw a picture of the cup of sand and show where the water went.



Write where the water went.



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ACTIVITY

Water In Pebbles and Sand (cont.)

Name	

Date _____

4. Which or the	cup held	d the mo and?	st water	, the cup (of pebbles
Explain	how you	know th	nat.		
			~~~~~		

Name						
Date	Water	I				
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Think about where the water moved in the pebble and sand cups. Draw a picture to show how rainwater outside can move like the water in the pebble and sand cups.

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Name		
Date		

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Draw what happens when water drips on the rock, pebbles, sand, and soil.

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Date	
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1.	What	question	are	you	asking?
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2. Write what you will do.


3. What materials will you use?

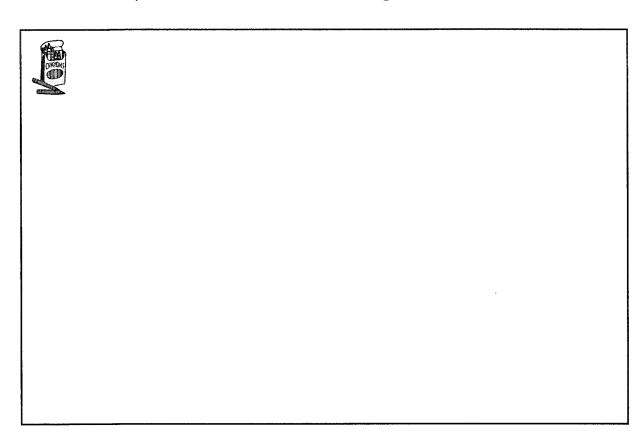


So	ak	I	t	Up!		(co	nt	.)
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Name	

Date _____

4. Draw a picture of your investigation.



Write what you observed.

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Name	J O U R N A L
	Soak It Up! (cont.)
Date	
Explain what happens into rivers, lakes, por	s to rainwater if it does not fall
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# Comparing Bodies of Water

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Complete the Bodies of Water Chart: Draw a picture of the body of water and write a description of the body of water.

Body of Water	Draw the Body of Water	Write a Description of the Body of Water
lake		
pond		
stream  Copyright © 2008 by Battle Creek Area		

Name	A C T I V I T Y
144110	Comparing Bodies of
Date	Water (cont.)

Complete the Bodies of Water Chart: Draw a picture of the body of water and write a description of the body of water.

Body of Water	Draw the Body of Water	Write a Description of the Body of Water
river		
ocean		

9	JOURNAL  Comparing Bodies of Water (cont.).	Date
1. Dr	raw a picture of a river	and a lake.
	river -	lake
Writ	te how they are alike a	nd how they are different.

te			Comparing Bodies of Water (cont.)
. Draw a	picture of a	n ocean an	d a pond.
	ocean		pond
Vrite how	they are al	ike and ho	w they are different

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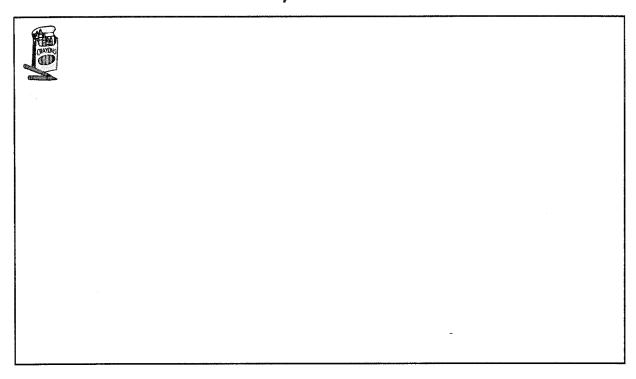
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## Daily Average Water Use

Use of Water	Average Total Amount of Water Used Daily
Washing hands	1 gallon
Washing face	2 gallons
Taking a shower	20 gallons
Taking a bath	30 gallons
Flushing toilet	20-25 gallons (3-5 gallons per flush)
Brushing teeth (without water running)	1/2 gallon
Drinking water	1/4 gallon
Washing dishes by hand	5 gallons
Washing dishes by machine	15 gallons
Washing clothes by machine	20 gallons
Cooking a meal	3 gallons
Watering the lawn	30 gallons
Washing the car	30 gallons

Name		J	0	U	R	Ν	Α	L	199	
Traine	Uses	of	W	ate	2 <b>r</b>	(cc	nt.	.)		
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1. Draw and label one way water is used at home.



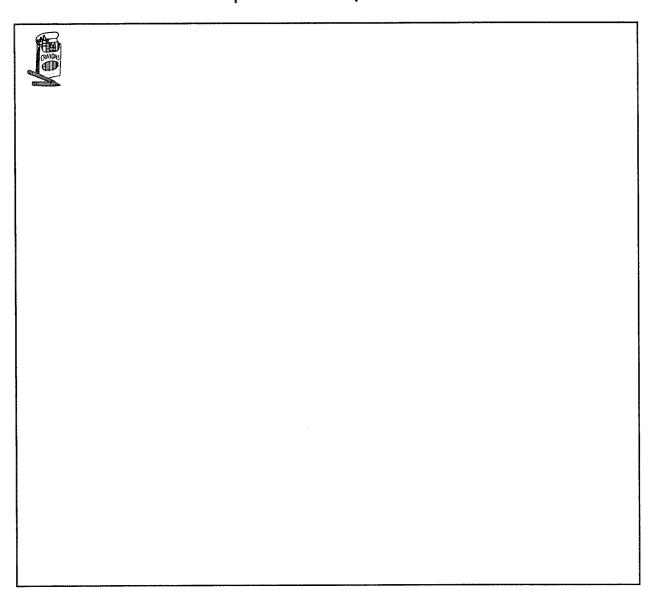
2. Look at the *Classroom Water Use Chart.* Write what use of water happens the most in the classroom. Explain how you know that.

 The state of the s			

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Date _____

1. Draw and label a picture of your well model.



- 2. Show how the water moved through the layers of earth material.
- 3. Label where the water pooled in the well model.

Name	JOURNAL
Date	Where Do We Get Our Drinking Water? (cont.)
1. Draw and write he source of water fo	ow groundwater can be used as a r homes and schools.

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#### J O U R N A L

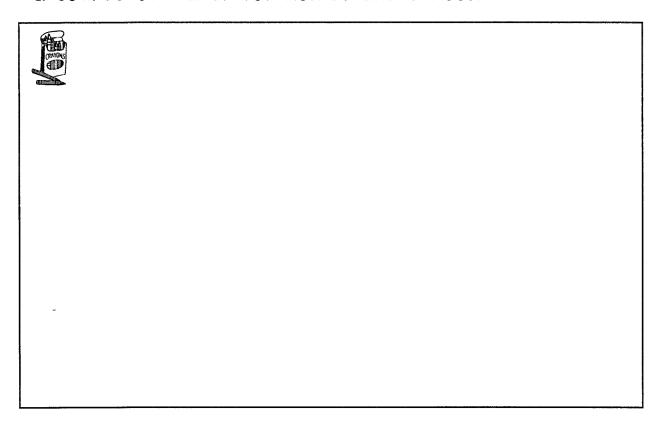
Where Do We Get Our Drinking Water? (cont.)

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Date _____

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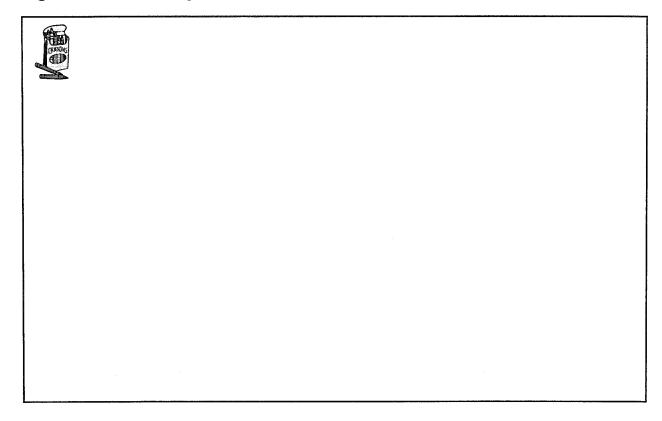
2. Draw and write how lakes and rivers can be used as a source of water for homes and schools.



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Name	JOURNAL
Date	Where Do We Get Our Drinking Water? (cont.)

3. Draw and write how water in rivers, lakes, and groundwater get more water.



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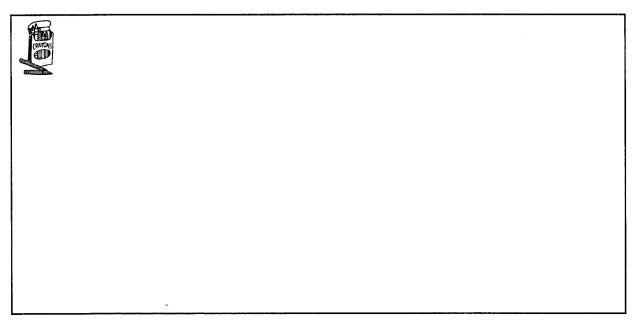


## Plants and Animals In the Wild Need Water Too!

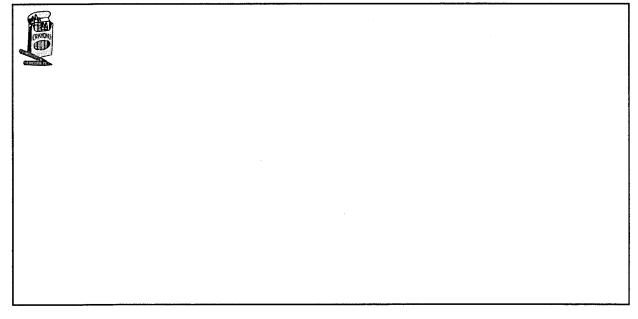
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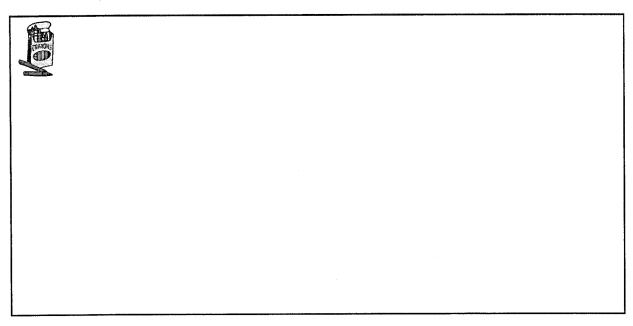
1. Draw the celery stalk in the colored water. Draw what you think will happen.



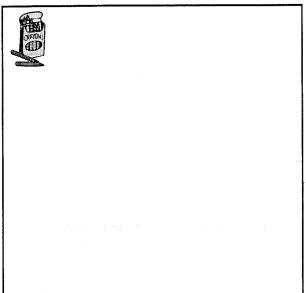
2. Draw the carrot stub in water and the carrot stub without water. Draw what you think will happen.

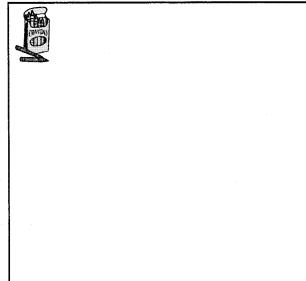


1. Draw a picture of the celery stalk after three to four days in the colored water.



2. Draw a picture of the carrot stub in water after three to four days and the carrot stub without water after three or four days.





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J O U R N A L

Name _____

Plants and Animals In the Wild Need Water Too! (cont.) Date _____

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Write 	where	animals	in the		t their v	water.
Write 	where	animals	in the	wild ge	t their v	water.
Write	where	animals	in the	wild ge	t their v	water.
Write	where	animals	in the	wild ge	t their v	water.
Write	where	animals	in the	wild ge	t their v	water.
Write	where	animals	in the	wild ge	t their v	water.

Name	Protect and Conserve Our
List and draw ways t water.	hat you can conserve and protect
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## J O U R N A L

## Follow That Drop! Performance Assessment

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Date _____

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**bodies of water** – Bodies of water are places where water collects. Streams, rivers, lakes, and oceans are examples of bodies of water.

- cleaning water Cleaning water is water used for cleaning. It is used to remove soil or stains from objects.
- dew Dew is the moisture or water droplets that condenses on cool surfaces at night.
- downhill Downhill is the direction that water flows on the Earth.
- drinking water Drinking water is water that can be safely used for drinking.
- **Earth** Earth is a planet with a surface made up of land and water.
- flow To flow is to move like a liquid. Rainwater that does not soak into the ground may flow downhill to oceans by way of lakes, streams, and rivers.
- fog Fog is tiny particles of water that float in the air, usually close to the Earth.

food preparation - Food preparation is making food ready for eating. Ways water is used to prepare food include adding it to make a gelatin dessert, boiling it for spaghetti, or using it to wash lettuce for a salad.

fresh water - Fresh water relates to water in the inland lakes, rivers, streams, ponds, and groundwater. Fresh water does not have a high salt content.

gas - A gas spreads out to fill any container it is in. Most gases are invisible. When water is a gas it is called water vapor and is invisible in the air we breathe.

globe - A globe is a type of map that shows that our world, planet Earth, has the shape of a sphere. A globe is a small model of the planet Earth.

groundwater - Groundwater is water that moves underground in the spaces between particles of materials, such as sand, soil, pebbles, and rocks.

hail - Hail is frozen water that is shaped in a sphere that falls from the clouds, sometimes during a thunderstorm.

hills - Hills are areas of high ground that are lower than mountains. Hills are a landform.

ice - Ice refers to frozen water.

lakes - Lakes are large bodies of water surrounded by land. Lake Michigan is a very large lake.

landforms - Landforms are different formations that make up part of the Earth's surface that is not water.

liquid - A liquid takes on the shape of its container. When water is a liquid it can be in the form of rain, dew, clouds, or steam. Liquid water is also found in bodies of water.

mountains - Mountains are high, steep surface features of the Earth that rise above the land around them. A mountain stands by itself or is a part of a group of mountains.

oceans - Oceans are large bodies of salt water that cover most of the Earth.

plains - Plains are large, mostly flat land. Many different types of grasses grow on the plains with few trees.

plateau - A plateau is a rise or hill with steep sides and a flat top.

**pollutant** - A pollutant is an unwanted substance that causes harm or contaminates an area, such as land, water, and air.

**pollution** - Pollution is the addition of any unwanted substances to land, water, and air that results in harming living things that depend on the land, water, and air.

**ponds** - Ponds are small, shallow bodies of water surrounded on all sides by land. Ponds are smaller and more shallow than lakes and usually have an abundance of plant growth surrounding and in the pond.

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

rivers - Rivers are large streams of water that flow downhill. They cause slow changes in the Earth's sur-

face by moving earth materials and forming valleys Rivers are a surface feature.

runoff - Runoff is water that does not soak into the ground, but flows downhill. Runoff carries earth materials from one place to another.

salt water - Salt water relates to the water in the oceans and salt lakes that have a high concentration of salt.

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

**soak** - To soak into the soil means for water to move underground between the soil particles, making the soil wet or covered in water.

**solid** – A solid has its own shape. It does not take the shape of its container. When water is a solid, it is found in the form of ice, snow, hail, and sleet.

source - A source is the beginning of a stream of water.



**spring** - A spring is a source of fresh water that comes up from the ground.

- **states of water** The states of water are the forms water takes. The three states of water are solid, liquid, and gas.
- **streams** Streams are small bodies of flowing water. After a rain, a stream of water may flow down a street into a drain.
- surface features Surface features are the landforms and bodies of water that are found on the surface of the Earth. Surface features include mountains, hills, valleys, plains, plateaus, rivers, lakes, and oceans.
- underground Underground means under the top of the ground. Water that moves between the soil particles usually cannot be seen.
- valleys Valleys are low landforms that are found between hills and mountains.
- well A well is a hole in the ground from which water can be drawn. Most wells are 100 to 2,000 feet deep.