Chapter 1 Home Investigation: Investigating a Sample Study Site

- 1. Get a piece of string or rope (such as a jump rope) that is 3 meters long. If you cannot find one, collect two rocks or sticks.
- 2. Find an outdoor space where one or more plants are growing. This can be a field, park, or even a crack in the sidewalk.
- 3. Mark the spot with the string or rope to create your sample study site. You can also mark the edges of your site using rocks or sticks.
- 4. Observe and draw the plants and animals you see in the sample study site.

5. Use words and pictures to describe what you see.	

Name:	Date:
Chapter 3 Home Investigation: Dis	spersing Seeds
Directions: 1. Go on a walk with an adult in an outdoor area not 2. Look for a seed or a plant that is away from oth 3. Answer the questions below.	,
How do you think the seed got to the place where think so?	you found it? Why do you

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Name:	Date:

Chapter 1 Home Investigation: Observing Your Favorite Drink

- 1. Choose a favorite drink to observe.
- 2. For each sense, record one or two observations about the drink.
- 3. Describe the drink. Use the words on the next page to help you.

Yours	senses	Describing words
	lt tastes	
	It looks	
	It sounds	
	It feels	
	lt smells	

Name: Date:	Name:	Date:	
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Chapter 1 Home Investigation: Observing Your Favorite Drink (continued)

Use these words to help you describe your drink.

Tastes	Feels	Looks
sweet	cold	bubbly
sour	hot	white
fruity	thick	brown
bitter	watery	blue
spicy	pulpy	clear
salty	smooth	orange
		red
		yellow

Sounds	Smells
quiet	sweet
loud	sour
fizzy	fruity
	creamy
	chocolatey

Chapter 1 Home Investigation: More Sticky Tests

Directions:

Part 1: Observing Ingredients

- 1. Ask an adult to help you select two or three safe ingredients.
- 2. Record the name of each ingredient in the first column of the table.
- 3. Put one spoonful of each ingredient in a cup. If the ingredient is dry, add water and stir
- 4. Record your observations of the wet ingredient in the second column of the table.

Part 2: Setting Up Sticky Tests

- 1. Ask an adult to help you get beans or some other material (such as rice).
- 2. Place a small circle of each wet ingredient on a labeled index card.
- 3. Add the same number of beans or other material to each ingredient.
- 4. Leave to dry overnight.

Part 3: Sticky Tests

- 1. Shake each card the same number of times to get a fair test.
- 2. Record your results in the third column of the table.

Ingredient	Observations	Sticky test results

Name:	Date:
Chapter 2 Home Inves	tigation: Heating and Cooling
Directions: 1. Choose a raw or uncooked food 2. Ask an adult to help you heat th 3. Observe the food three times— after it returns to its starting ter 4. After each observation, record	ne food. -before you heat it, after you heat it, and mperature.
Before you heat the food: What a	re the properties of the food?
After you heat the food: How did properties of the food.	the food change? Describe any new
After the food returns to its starti food the same as before you heat	ing temperature: Are the properties of the ed it? Or did they change?

Name:

Chapter 3 Home Investigation: Designing a Lemonade Recipe

- 1. Use what you have learned about the properties of ingredients to design a great tasting lemonade!
- 2. Ask an adult to help you gather enough ingredients for one glass.
- 3. Discuss the properties you want your mixture to have.
- 4. As you add each ingredient, stir the mixture and taste it.
- 5. Circle cups and spoons as you add them. Then record how much of each ingredient you added on the line.
- 6. If you would like, add a mystery ingredient. (Hint: fruit or mint might taste great.) Draw the ingredient and show how much you added.
- 7. Stop when the lemonade tastes right to you. Add ice and enjoy!

Total number	Ingredient	Circle how many you add
cups	warm water	
tablespoons	lemon juice	4444
teaspoons	sugar	11111111111111111111111111111111111111

Name:	Date:
NOTTIC:	_ Date

Chapter 4 Home Investigation: Mystery Drinks

Directions:

- 1. Think of two Mystery Drinks. Record the properties of each drink in the second column of the table.
- 2. Ask a friend or family member to name the ingredients of each drink based on the drink's properties.
- 3. Write what the person says in the third column.
- 4. Then, ask that person to figure out the Mystery Drink.
- 5. Write the person's answer in the fourth column.

Words You Can Use

watery	fizzy	blue	salty
thick	green	white	sweet
grainy	light brown	red	sour
chunky	dark brown	orange	creamy

Mystery Drink	Properties	Ask: "What are the ingredients?"	Ask: "What is the Mystery Drink?"
Example	bubbly	fizzy water	orange soda
	orange	orange juice	
	watery	corn syrup	
	sweet		
Drink 1			
Drink 2			

Name:	Date:
Chapter 1 Home Making Observation	
 Directions: Find a rock near your home or in your Record your observations about the rock's size, she think the rock got to be the way it is. In the box at the bottom of this page, 	rock. Make sure to include ape, and color. Describe how you
Record your observations.	
Describe how the rock got to be the way	y it is.
Draw the rock.	

Name:		Date:
Chapte	r 2 Home	Investigation: What's Stronger?
Invite someone each pair that to 2. After they finish person about to to explain whice	at home to they think is n deciding heir answe h one is str	ger?, you learned that water can cause erosion. to look at the list below and circle the thing in a stronger. What is stronger from the list below, talk to the rs. Use ideas you remember from the book onger and why. You can use the scientific of this page to explain your ideas.
What's stronger?	e bottom c	Tulis page to explain your lacas.
raindrops	or	a hill
a boulder	or	a stream
a river	or	a mountain
waves	or	a beach
rock	or	ice

a valley or a glacier

Name: Date:	Name:	D	Date:
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Chapter 3 Home Investigation: Making a Flipbook

Make a flipbook that shows how small changes to a landform can add up to a big change over time.

Materials:

- several small pieces of paper
- a pencil
- markers or crayons
- a stapler

- 1. Choose a landform.
- 2. Ask someone at home to help you create your flipbook. Explain to the person how water can erode your landform over time.
- 3. On the first piece of paper, draw what your landform looked like a long time ago.
- 4. On the next piece of paper, draw the landform again with a very small change.
- 5. Continue to draw the landform on the pieces of paper, with each drawing showing a new small change.
- 6. Your last drawing should show that a big change has happened to the landform over time.
- 7. If you'd like to, you can use markers or crayons to add color to your drawings.
- 8. Have someone at home help you staple the pages of your flipbook together in order.
- 9. Turn the pages of your flipbook quickly to see the drawings of the landform move.

Name:	Date:
Chapter 4 Home Investig Making a Stream Mod	
 Directions: Use materials you find at home to make a stread a plastic tub, sand or soil, rocks, sticks, a pitcher anything else an adult at home says is okay to use an adult before choosing your materials! In the box below, draw your stream model. On the next page, answer the questions about 	for pouring water, or use. Be sure to check with
My Stream Model	

Name:	Date:	
-	ome Investigation: eam Model (continued)	
How is your stream model similar to	o a real stream?	
How is your stream model different	t from a real stream?	
What did you learn about streams	from your stream model?	