Name:	Date:
Chapter 1 Home Investigo	ation: Helping the Ecosystem
are doing to help plants and anim	out what people in your neighborhood als in your area stay healthy. en ask the two questions shown below.
3. Record each person's responses of	on the lines below each question.
Name of Person 1:	
What is something that people in ou plants and animals in our local ecosy	
What is something that people in ou plants and animals in our local ecosy	
Name of Person 2:	
What is something that people in ou plants and animals in our local ecosy	
What is something that people in ou plants and animals in our local ecosy	_

Name: Date:	
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Chapter 2 Home Investigation: The Story of My Food

- 1. With the help of a family member, try to identify the source of the food molecules from a food you have eaten today.
- 2. On the line below, write the name of the food.
- 3. Together with your family member, list the ingredients that were used to make that food. (You might need to look at a recipe or at the information on the side of the food package to figure this out.)
- 4. Try to identify the source of molecules for each ingredient. Did it come from a plant or an animal? Where did that plant or animal get its food molecules?

Name of ingredient	Source: plant or animal?	Where could that plant or animal have gotten its food molecules?

Name:	Date:
NOTTIC:	_ Date

Chapter 3 Home Investigation: Conduct a Soil Investigation

- 1. Together with someone at home, take a close look at the soil in a yard, flower pot, or other area where plants might grow. On the line on the next page, write where you got the soil sample.
- 2. With your fingers or a spoon, scoop a small amount of soil onto a piece of paper.
- 3. Spread the soil sample on the paper so you can observe the matter that makes up the soil.
- 4. In the box on the next page, draw what you observe.
- 5. Add labels to describe or identify the matter that makes up the soil in your sample. You may want to use the scientific language (below) for ideas.
- 6. Write a caption for your drawing that describes the soil you observed.

Scientific Language About Soil				
rich soil	decomposing	sow bug	deac	l organisms
leaves	earthworm	plants	millipe	edes
decompose	ers fungus	water	moist	dry

Name:	Date:

Chapter 3 Home Investigation: Conduct a Soil Investigation (continued)

Soil sample fr	rom:	 		
Caption:				
		 	·	

Name: Date:
Chapter 1 Home Investigation: Food Mixtures
 Interview two people at home about mixtures they've made in the kitcher Record each person's name and then ask the questions below. Record each person's responses on the lines below each question.
Person 1:
Describe a mixture you've made out of different ingredients.
What were some of the properties of the ingredients before you mixed them? Did the mixture have the same or different properties?
Person 2:
Describe a mixture you've made out of different ingredients.
What were some of the properties of the ingredients before you mixed them? Did the mixture have the same or different properties?

Name:	Date:	

Chapter 2 Home Investigation: Investigating More Mixtures

- 1. With someone at home, choose two flavor ingredients to see whether or not they will dissolve in water. Choose ingredients that you did not investigate in class.
- 2. On the next page, record the name of your first flavor ingredient on the line provided.
- 3. Add a small amount of your first flavor ingredient into a half cup of water and stir with a spoon until it has dissolved or until you are sure that it will not dissolve.
- 4. In the Key on the next page, record the name of flavor ingredient 1. Then draw a shape to represent a molecule of flavor ingredient 1 and a shape to represent a water molecule.
- 5. Draw a model of your first mixture.
- 6. Repeat Steps 2–5, this time using your second flavor ingredient. Draw your model on page 3.
- 7. Use your models to explain to the person who's investigating with you what is happening with the molecules of the substances as they mix or don't mix.

Name: Date:

Chapter 2 Home Investigation: Investigating More Mixtures (continued)

Flavor ingredient 1:	
Model of the Mixture	
	Key molecule water molecule

Name: Date:

Chapter 2 Home Investigation: Investigating More Mixtures (continued)

Flavor ingredient 2: Model of the Mixture		

Name:	D	ate:

Chapter 3 Home Investigation: Molecules in Salad Dressing Quiz

- 1. Create a quiz about the molecules you've used in class to make salad dressing.
- 2. Write five statements about what happens to the molecules in dissolving, mixing, or separating substances. Some statements should be true, and some statements should be false.
- 3. Give the quiz to someone in your family group. Have that person read each statement and circle whether they think each one is true or false.
- 4. Talk about the answers with the person who took the quiz. You might teach them something!

		,
1.	true	false
2.	true	false
3.	true	false
4.	true	false
5.	true	false

Name:	Date:
Chapter 1 Home Investiga	tion: Observing the Stars
A. Interview someone at home about the or other objects in space. Record the	
B. List three of your own interview questors or other objects in space has the special memory connected with seeing favorite star?	
C. Interview the person and record their	r responses.
Name of person interviewed:	
1	
Response:	
2	
Response:	
3	
Response:	
4. What do you still wonder about the	
Response:	

Name:	Date:	
Chapter 2 Home Investigation: Earth and Stars Quiz		
 A. Using what you have learned so far about Eart quiz by recording five statements. Some stater some statements should be false. The first state. B. Give the quiz to someone at home. Have that pustatement and indicate whether they think it is. C. Talk about the answers with the person who to teach them something! 	ments should be ement is done person read ea true or false.	pe true , and e for you. ach
1. The sun is the closest star to Earth.	☐ true	☐ false
2.	☐ true	☐ false
3.	☐ true	☐ false
4.	☐ true	☐ false
5.	☐ true	☐ false

name Date	Name:		Date:
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Chapter 3 Home Investigation: Planning and Conducting a Systematic Investigation

- 1. With an adult, make a plan to systematically observe which stars are visible in an area of the sky over a period of two weeks.
- 2. Fill in the dates and times when you will observe the sky (first column).
- 3. Go outside and choose an area of the sky that you would like to investigate. Choose an area that is near a reference point (a telephone pole, a building, or a tree), so you can be sure you are looking at the same area every time. Draw the stars you see and the reference point for this and every observation that follows (second column).
- 4. Follow your plan. You may wish to look at a star map or a digital device so you can learn more about the stars you are investigating.

Date and Time	Observation: Stars and Reference Point
date	
time	
date	
time	

Vame:	Date:

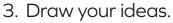
Chapter 3 Home Investigation: Planning and Conducting a Systematic Investigation (continued)

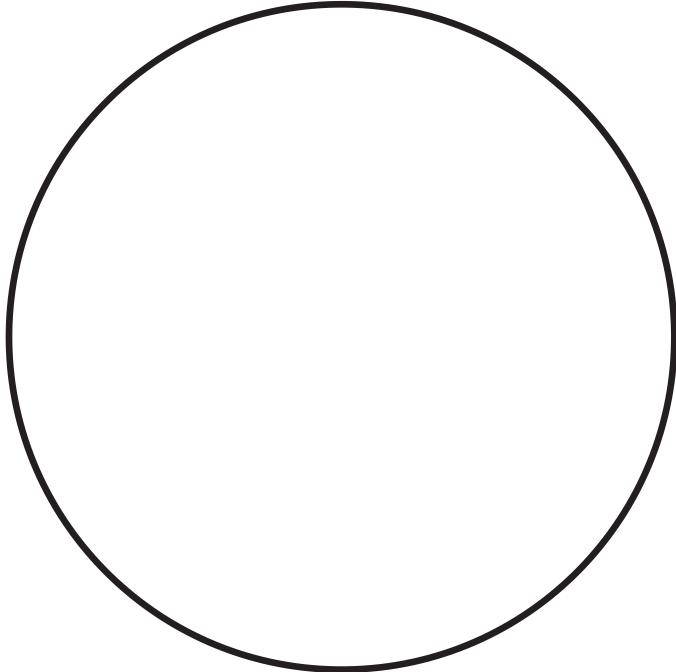
Date and Time	Observation: Stars and Reference Point
date	
time	
date	
time	
date	
+:	
time	
date	
time	

Name:	Date:
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Chapter 4 Home Investigation: Design an Artifact

- 1. With an adult, design an artifact that shows your ideas about the stars we can see from Earth. Work together to come up with an artifact that is unique.
- 2. Choose the stars or constellations you would like to include by referring to reference books or reliable sites on the Internet.





Name:	Date:
Chapter 1 Home Inv	vestigation: Saving Water
Interview two people at home a save water and what ideas they	bout whether they think it is important to have about how to save water.
2. Write each person's name and t	then ask the questions shown below.
3. Record each person's responses	s on the lines below each question.
Name of Person 1:	
Do you think it is important to save	water? Why or why not?
What can we do to save water?	
Name of Person 2:	
Do you think it is important to save	water? Why or why not?
What can we do to save water?	

 Chapter 2 Home Investigation: Evaporation and Condensation With the help of someone at home, look for examples of evaporation and condensation happening in or around your home. 		
Examples of evaporation	Examples of condensation	

Date: _____

Name: _____

Name:	Date:			
Chapter 3 Home Investigation: Rain Quiz				
1. Write four statements about rain and how raindrops form. Some statements should be true and some should be false.				
statement. T	to someone at home. Have that person read each hey should circle "Agree" by the statements they agree with ee" by the statements they disagree with.			
3. Talk about the teach them	ne answers with the person who took the quiz. You might something!			
Statement 1:	Agree / Disagree			
Statement 2:	Agree / Disagree			
Statement 3:	Agree / Disagree			
Statement 4:	Agree / Disagree			

Chapter 4 Home Investigation: Earth System Interactions

- 1. Describe the different parts of the Earth system (hydrosphere, biosphere, atmosphere, and geosphere) to someone at home.
- 2. With their help, try to identify examples of parts of the Earth system interacting in and around your home.
- 3. In the table below, record what you observed in the first column. In the second column, write which parts of the Earth system you think are involved. In the third column, describe the interactions.

Observation	Parts of the Earth System	Interactions
A puddle in the yard is smaller today than it was yesterday.	hydrosphere atmosphere	The water in the puddle (part of the hydrosphere) is evaporating to become water vapor in the atmosphere.

Name:	Date:
Chapter 5 Home Investiga	ation: Chemical Reactions at Home
your home. Answer the question 2. Explain to someone at home has 3. Ask the person at home if he contact the person at home in the p	actions that you can observe in or around ons below for each chemical reaction. now you know these are chemical reactions. or she has any questions about how to know opened. Record these questions, then see if
Chemical Reaction 1:	
What evidence can you observe	that shows this is a chemical reaction?
Chemical Reaction 2:	that shows this is a chemical reaction?
What questions did the person you were you able to answer them?	ou talked to have about chemical reactions?