Name: Date:
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# Chapter 1 Home Investigation: Forces Around the Home

- 1. Find evidence of three forces around your home.
- 2. Fill in the table below about the forces.
- 3. Show someone in your family your work and explain your evidence to him.

Observation	Object 1	Object 2	What kind of
(describe what			evidence?
you saw)			(circle one)
			Started moving or Stopped moving
			Started moving or Stopped moving
			Started moving or Stopped moving

Name:	Date:	

## **Chapter 3 Home Investigation: Forces Quiz**

- 1. Create a quiz about forces. Write five statements about forces, magnetic force, or gravity. Some statements should be true, and some statements should be false.
- 2. Have someone in your family group take the quiz. Have that person read each statement and circle whether they think each one is true or false.
- 3. 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 4 Home Investig	ation: Floating Paper Clip
floating paper clip.	explain to them about the forces
Diagram of the floating paper clip:	
Family member's questions:	

Name:	Date:
	me Investigation: Train Explanation
1. Share your explanation of why the floating to falling with a member of	•
<ol> <li>Use the diagrams you made to he</li> <li>Have your family member write a the train.</li> </ol>	t least one question they have about
4. Write ideas you have about an ar	swer to their question.
Family member's questions:	
Your ideas about their questions:	

lame: Date:			
Chapter 1 Home Investigation: Observing Similarities and Differences			
Directions:			
<ol> <li>With someone from your home, cho</li> <li>(living things, such as plants or animals)</li> <li>Discuss the traits that are different of the similarities</li> <li>In the table below, list the similarities</li> <li>Answer the questions at the bottom</li> </ol>	als) in your home or neighborhood. and the traits that are similar. s and differences in the traits.		
The two organisms I chose are:			
Similarities	Differences		
Do you think these two organisms are closely related? Why or why not?			

Name:Date:
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## Chapter 2 Home Investigation: Inherited Traits Quiz

- 1. Create a quiz about what you've learned so far about traits.
- 2. Record five statements about traits. Some statements should be true, and some statements should be false.
- 3. Give the quiz to someone at home. Have that person read each statement and circle whether they think it is true or false.
- 4. Talk about the answers with the person who took the quiz. You might teach them something!

Two different organisms can have similar traits, even if they don't have the same parents.	true	false
2.	true	false
3.	true	false
4.	true	false
5.	true	false

Name:	Date:

# **Chapter 3 Home Investigation: Can It Be Inherited?**

- 1. Think of traits that can be inherited and traits that cannot be inherited.
- 2. Record the traits in Column 1.
- 3. Have an adult at home decide whether they think each trait came from inheritance, from interaction with the environment, or from both. Record their answers in Column 2.

Trait	Where does the trait come from?
broken arm	the environment

Name:	Date:		
Chapter 4 Home Investigation: How Organisms Could Get Their Traits			
<ol> <li>Directions:</li> <li>Think of an organism that you would like to learn rethe name of the organism below.</li> <li>Record the environment in which the organism live.</li> <li>In the "Parents" box, draw two parent organisms. Label three traits that each parent has.</li> <li>Show your drawing to someone at home. Talk about offspring of these two parent organisms might have.</li> <li>Based on your discussion, draw a possible offspring on the next page. Label its traits.</li> </ol>	es. in their environment. out what traits an ive.		
Organism:			
Environment:			
Parents			

Name: _	Date:
	Chapter 4 Home Investigation: How Organisms Could Get Their Traits (continued)
	Possible Offspring

Name:	_ Date:

# Chapter 1 Home Investigation: Observing Organisms

- 1. With an adult, look for organisms meeting their needs in their environment. You might try looking for organisms in your neighborhood, in your yard, or even inside your home.
- 2. For each organism you observe, write the name of the organism in the first column of the table.
- 3. In the second column, record information about the organism's environment.
- 4. In the third column, record the need or needs you observed the organism meeting.
- 5. In the last column, record what made you think the organism was meeting that need.

Organism	Environment	Need that the organism met	How do you know?
Example: Spider	in a web on my kitchen window	getting food	There was a fly in the web. I think the spider would eat it.

Name:	Date:

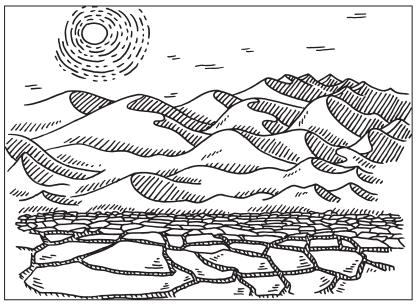
# Chapter 2 Home Investigation: Adaptive and Non-Adaptive Traits

## Directions:

- 1. With an adult, figure out what traits would make it more likely or less likely for a small animal called a meep to survive in the environment described below.
- 2. In the table on the next page, circle the traits that would make a meep more likely to survive in this environment. Make an X across the traits that would make a meep less likely to survive in this environment.
- 3. In the box on the next page, draw a meep that is most likely to survive in this environment. Label the adaptive traits (the traits that would make it likely to survive).

#### **Environment**

This hot desert environment gets very little rain. The ground is white clay, and the mountains are white sand. The predator (shown below) slides along the clay ground, hunting for meeps with its good eyesight and sharp teeth.





Possible traits of a meep	n-Adaptive Traits (continued)
Scales Hair	Wings
white scales thick ha	ir small wings that allow the meep to fly short distances
light gray scales thin hair	no wings
dark gray scales very little	e hair large wings that allow the meep to fly long distances

Name:	Derter
Name:	Date

## Chapter 3 Home Investigation: Traits and Environment Quiz

- 1. Create a quiz about what you've been learning about how organisms with different traits are likely or not likely to survive in an environment.
- 2. Record four statements about an organism's trait and how that trait would make it easier or harder for the organism to survive in a certain environment. Some statements should be true, and some statements should be false.
- 3. Give the quiz to an adult in your home. 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!

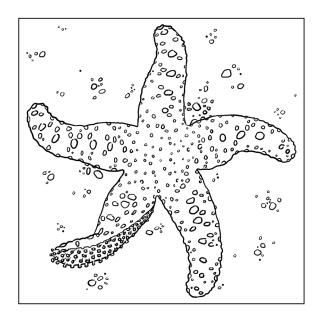
1.	true	false
2.	true	false
3.	true	false
4.	true	false

Name:	Date:

# Chapter 4 Home Investigation: Biomimicry Design Challenge

#### Directions:

- 1. With an adult, read the facts about sea stars.
- 2. Design something new that would be helpful in your everyday life. Your design should be inspired by one or more of the traits of the sea star.
- 3. On the next page, record the name of your design and draw it in the box. Label the parts of your drawing.
- 4. Answer the questions on the next page.



Sea stars have these adaptive traits that help them survive in their ocean environment:

- bony skin that protects them from predators
- skin that camouflages with the environment or skin that is brightly colored so the sea star looks poisonous
- hundreds or thousands of tiny tube feet that help the sea star pry open the shells of prey, such as clams or oysters
- sack-like stomachs that they can push out of their bodies and into the shell of a prey, such as a clam, so they can easily digest food that is bigger than their mouths

Name:	_ Date:
Chapter 4 Home Investigo Biomimicry Design Challenge	
Name of my design:	
What problem does your design solve?	
How did the traits of a sea star help you get ideas f	for your design?

Name:	Date:
Chapter 1 Home Investig	gation: Weather Report
Directions:	
<ol> <li>Watch a weather report on television newspaper or online, or listen to a weather someone in your family.</li> <li>Discuss the weather report.</li> <li>Repond to the prompts below.</li> </ol>	-
How did the weather report connect to weather in science class?	what you have learned about
Make a drawing if it helps you explain.	Label your drawing.
Write a question about something from	n the weather report.

Name:		_ Date:
•	oter 2 Home Investigo aring Temperature R	
Directions:		
<ol> <li>Choose a faraway place where a relative lives o</li> <li>Have the adult help you faraway place for the p</li> <li>Discuss the data, and the</li> </ol>	I during the past 30 days. The that you want to investion I somewhere you want to U look up the daily high te Dast 30 days.	gate. It could be a place travel. mperatures in the table and questions below.
	, 	·
Highest High Temperature (°F)	Lowest High Temperature (°F)	Temperature Range
		from°F
		to°F
Predict tomorrow's high to	emperature in the farawo	ay place.

Name: Date:		
Chapter 3 Home Investigation: Weather	Quiz	
Directions:		
1. Write some true and false statements about weather, sec climate.	asons, ar	nd/or
2. Have an older brother or sister, or another adult take the should check the box depending on whether they agree of the statement.	•	•
3. If your relative got anything wrong, explain the correct an relative got all the questions right, explain something else seasons, and/or climate.	•	
4. On the back of your paper, have your adult write about who	at you ex	plained.
	Agree	Disagree

Name:	Date:
Chapter 4 Home Investigation: Nat	ural Hazards Inverview
Directions:	
<ol> <li>Interview two people at home about nature</li> <li>Write each person's name and then ask the</li> <li>Record each person's responses on the line</li> </ol>	em the two questions.
Name of Person 1:	
What was a time you observed dangerous we	eather? What did you see and
feel?	
Did you know this weather was coming? If so,	what did you do to prepare?
Name of Person 2:	
What was a time you observed dangerous we	eather? What did you see and
feel?	
Did you know this weather was coming? If so,	