

6th – 8th Grade Discovery Hunt: Farish Hall of Texas Wildlife and Hamman Hall of Coastal Ecology

As you visit Farish Hall of Texas Wildlife and Hamman Hall of Texas Coastal Ecology, use your observation skills and scientific thinking to answer the questions below. Write neatly and use complete sentences.

Ecosystem Organization
Choose one ecosystem display.
• Ecosystem name:
List an example of each level:
Organism (one living thing):
Population (group of same species):
• Community (different species together):
1. —
2. —
3. —
How does biodiversity help this ecosystem stay healthy?
Biotic and Abiotic Factors
Pick two different habitats you see.
Habitat 1:
• List three living (biotic) things:

• List three non-	living (abiotic) things	:
How might two	organisms compete f	for something in this habitat?
Habitat 2:		
• List three livin	g (biotic) things:	
• List three non-	living (abiotic) things	:
How does one of	organism depend on s	omething non-living here?
3. Relationships in	Nature	
Find examples of eacl	ı type of relationship:	
	·	Prey:
		Species 2:
• Symbiosis (cho		nmensalism

Orgar	nisms: and
Descr	ibe their relationship:
Food Web	Connections
Pick one hab	pitat and build a food web.
• Habit	at:
Fill in the bl	anks:
• Produ	acers:
• Prima	ary consumers:
• Secon	dary consumers:
• Tertia	ary consumers:
Draw arrow	s below to show how energy moves from one group to another.
Why does er	nergy decrease at each step in the food web?
Willy does en	lergy decrease at each step in the root west.
Human Im	pact
In the Hamrecosystems.	man Hall of Coastal Ecology, look for ways people affect coastal
• Name	e one positive human impact:

• Name one negative human impact:

4 Farish Hall of Texas Wildlife and Hamman Hall of Coastal Ecology
If one species disappeared from a Texas ecosystem, how could it affect other living things?
Critical Thinking
Adaptation: What challenge does it help with?
Pick one organism and describe an adaptation that helps it survive: Organism:
• Long-term change: Example: How does it affect populations?
Short-term change: Example: How do organisms respond?
Environmental changes can happen quickly or slowly, affecting how organisms survive. Find an example of each type of change.
What is one thing you can do to help protect Texas coastal ecosystems? Environmental Changes & Adaptations

What could people do to help keep Texas ecosystems healthy?

Science Words to Know

- Adaptation: A body part or behavior that helps an organism survive.
- Ecosystem: All living and non-living things in an area.
- Abiotic: Non-living things like water, sunlight, soil.
- Biotic: Living things like plants and animals.
- Population: A group of the same species living together.
- Community: Different species living and interacting together.
- Predator: An animal that hunts other animals.
- Prey: An animal that is hunted.
- Food web: Shows how energy moves among living things.
- Conservation: Protecting nature and wildlife.

TEKS Alignment

6th Grade Science

- SCIENCE.6.12.A: Investigate how organisms and populations in an ecosystem depend on and may compete for biotic factors such as food and abiotic factors such as availability of light, water, range of temperatures, or soil composition.
- SCIENCE.6.12.B: Describe and give examples of predatory, competitive, and symbiotic relationships between organisms, including mutualism, parasitism, and commensalism.
- SCIENCE.6.12.C: Describe how variations within a population can be an advantage or disadvantage to the survival of a population as environments change.

7th Grade Science

- SCIENCE.7.11.B: Describe human dependence and influence on ocean systems and explain how human activities such as runoff, artificial reefs, or resource use impact these systems.
- SCIENCE.7.12.A: Construct and analyze food chains, food webs, and energy pyramids to explain energy flow through ecosystems.
- SCIENCE.7.12.B: Describe how ecosystems are sustained by the continuous flow of energy and the recycling of matter and nutrients.

8th Grade Science

- SCIENCE.8.11.A: Investigate how organisms and populations in an ecosystem depend on and may compete for biotic factors such as food and abiotic factors such as quantity of light, water, range of temperatures, or soil composition.
- SCIENCE.8.11.B: Explore how short- and long-term environmental changes affect organisms and traits in subsequent populations.
- SCIENCE.8.11.C: Recognize human dependence on ocean systems and explain how human activities such as runoff, artificial reefs, or resource use have modified these systems.