

# Water, Wildlife and Wilderness Field Studies Program Life Cycles and Food Chains

at Circle B Bar Reserve





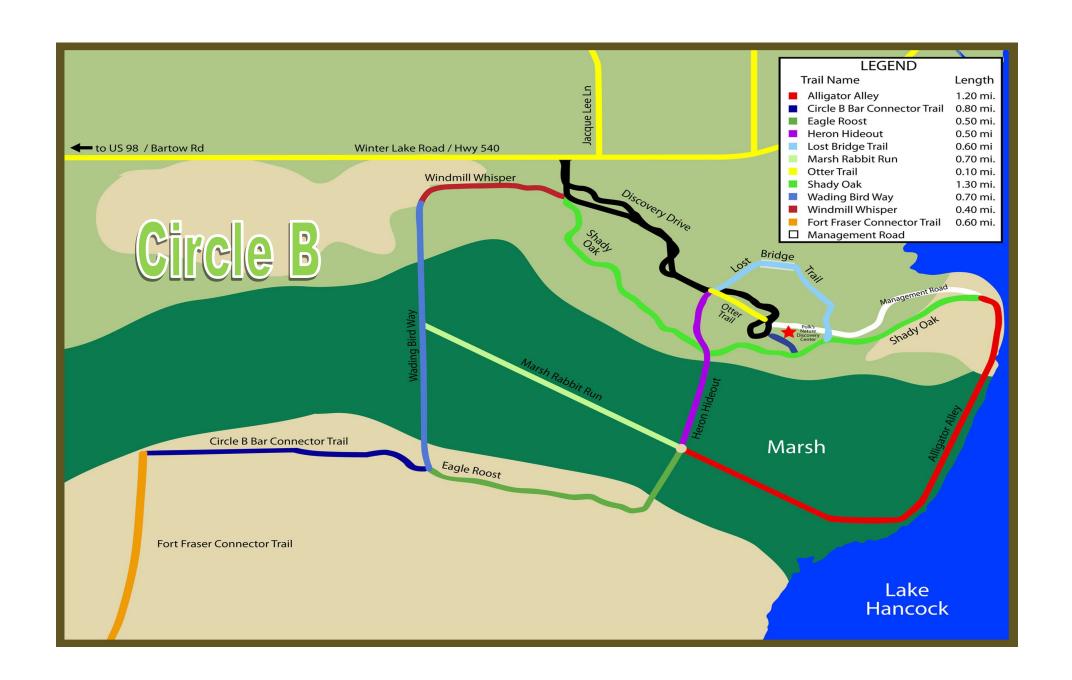


#### **Mission**

Polk's Nature Discovery Center will provide hands-on learning experiences in an outdoor setting that engage students in investigating the value of Polk County's natural resources. Through this exploration, students will discover the interconnection of water, wildlife and wilderness; understand their impact on the environment; and foster a sense of personal stewardship towards the environment.

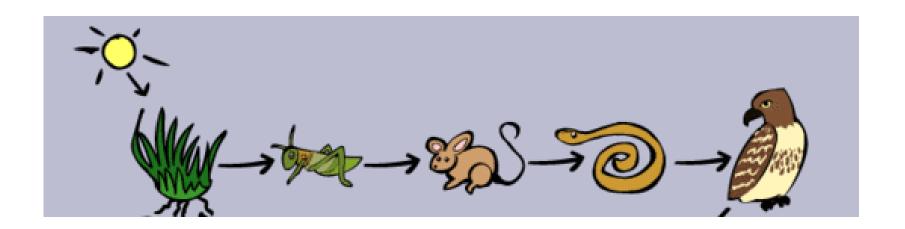
	Researcher	Date of Visit
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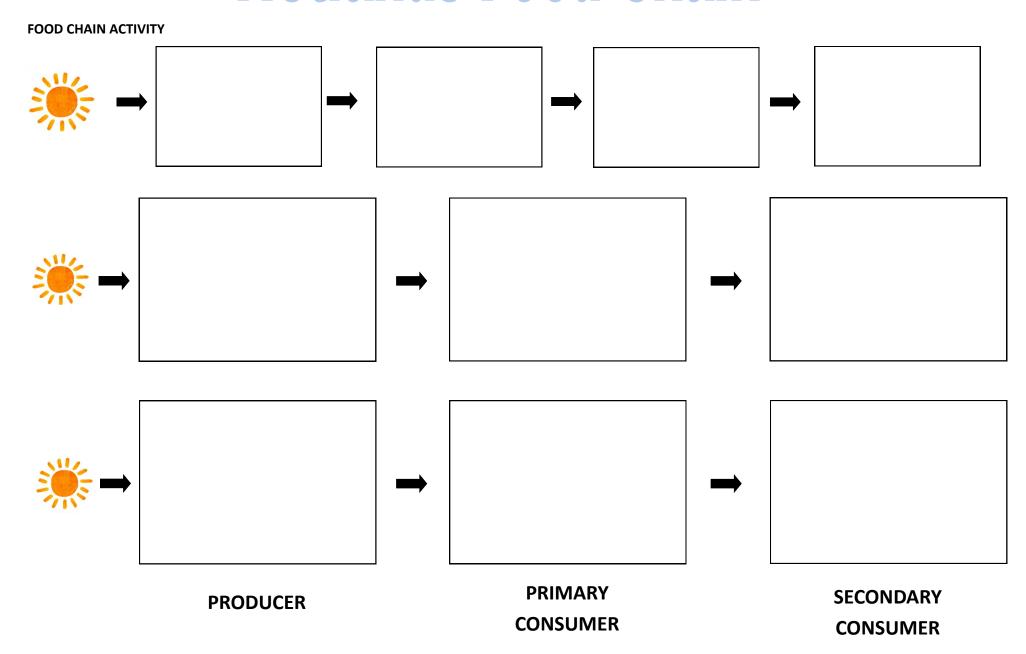


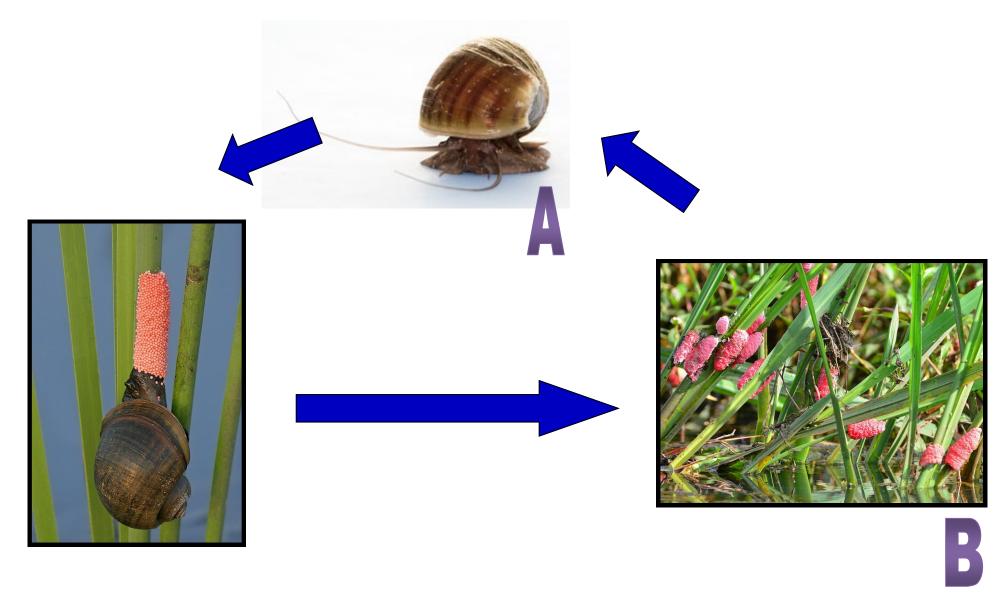
## What is a food chain?

A <u>food chain</u> shows how each living thing gets food and how energy is passed from one living thing to another. Food chains begin with plant-life and end with animal life, all cycling back to decomposers. Some animals eat plants, some animals eat other animals, some animals eat plants and animals. Plants use energy from the Sun to make their own food.



# Wetlands Food Chain





# Life Cycle of Living Things

The images to the left are of a female apple snail and what she has left behind after 3 days in our freshwater marsh. What are those small, spherical pink things clustered together? What evidence do you have to support your answer?
Which letter is the beginning life cycle of an apple snail?
Describe at least four physical characteristics of an apple snail.

Some living things go through physical form changes in their life cycle, called metamorphosis. Draw a line connecting each infant to its adult stage.

#### Infant









Adult





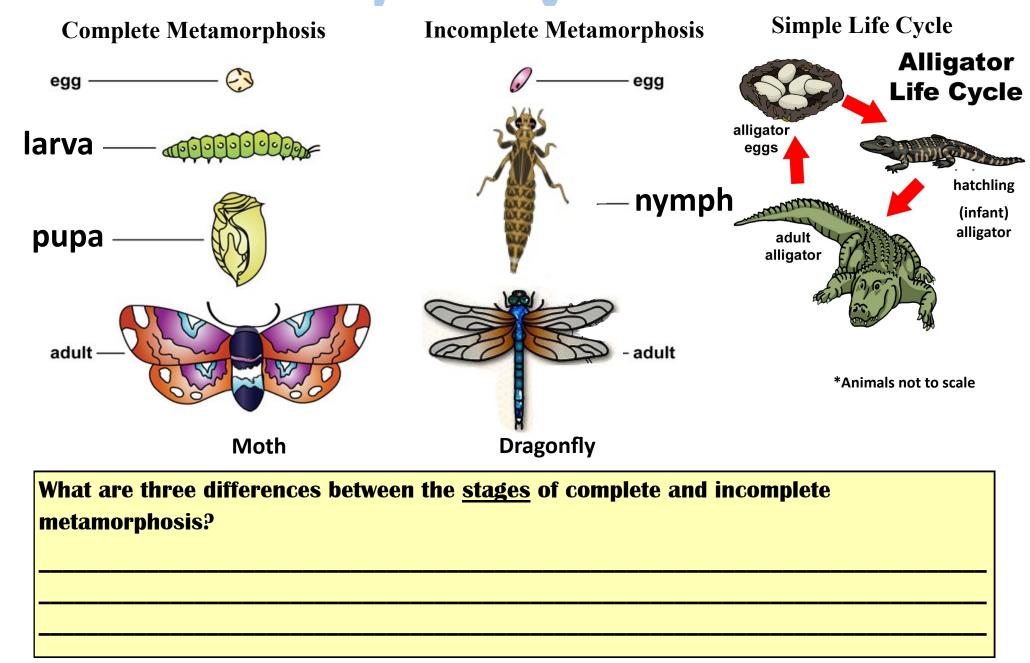




Life Cycles of Living Things

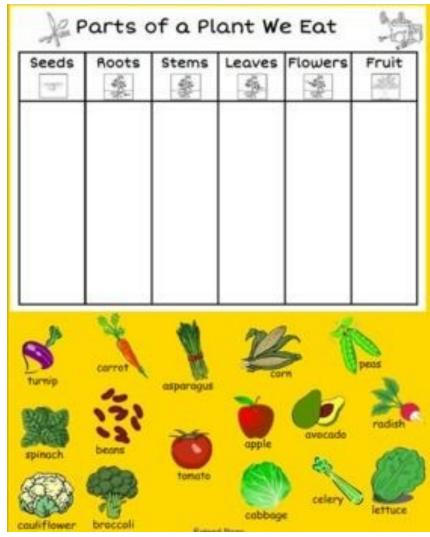
\*Animals not to scale

## Life Cycle Changes in Animals

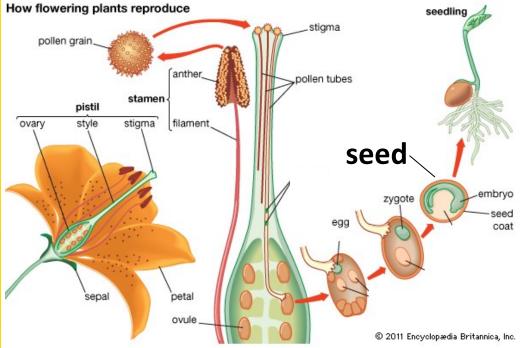


### Flowering Plants

Flowering plant examples:

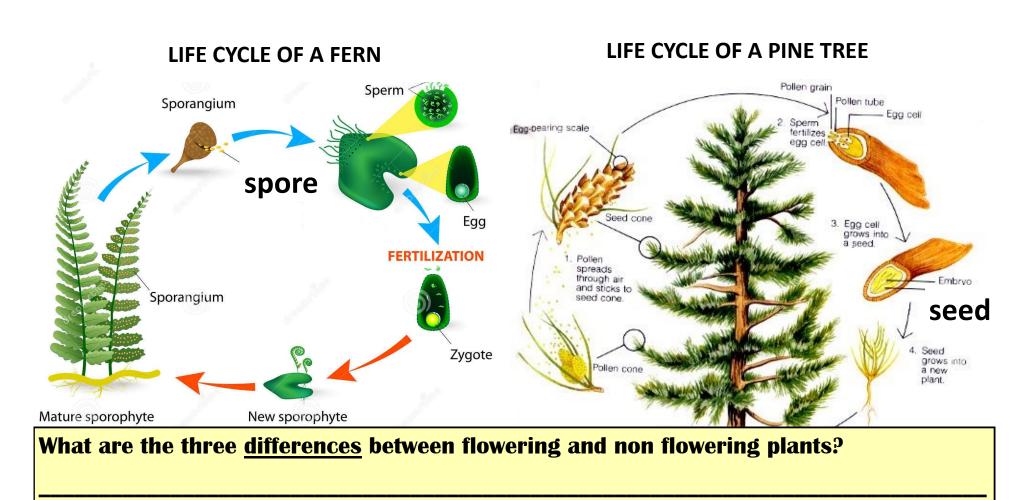


#### LIFE CYCLE OF A FLOWERING PLANT



### Non flowering Plants

Non-flowering plant examples: \_\_\_\_\_\_



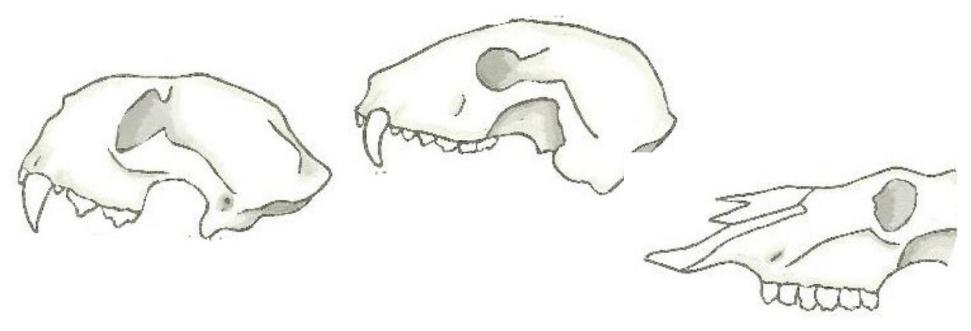
The Florida panther is an endangered species living primarily in and around the Everglades. Cows, raccoons, black bears and bobcats also live in Florida. The diet of these animals enables them to eat different things. A drawing of a Florida panther and a chart comparing the diets of these animals are shown below.



FLORIDA ANIMALS

Animal	Diet
Black bear	nuts, acorns, insects
Bobcat	mice, reptiles, birds
Cow	corn, grass, hay
Florida panther	deer, raccoons, armadillos
Raccoon	fruit, acorns, frogs, fish

Information about an animals teeth helps us understand their diet. Animals with mostly flat teeth has a main diet of plants. Animals with mostly sharp teeth have a main diet of meat. Animals with both flat and sharp teeth have a main diet of plants and animals. Using the Florida Animals diet chart, draw a line from the animal to the correct teeth.



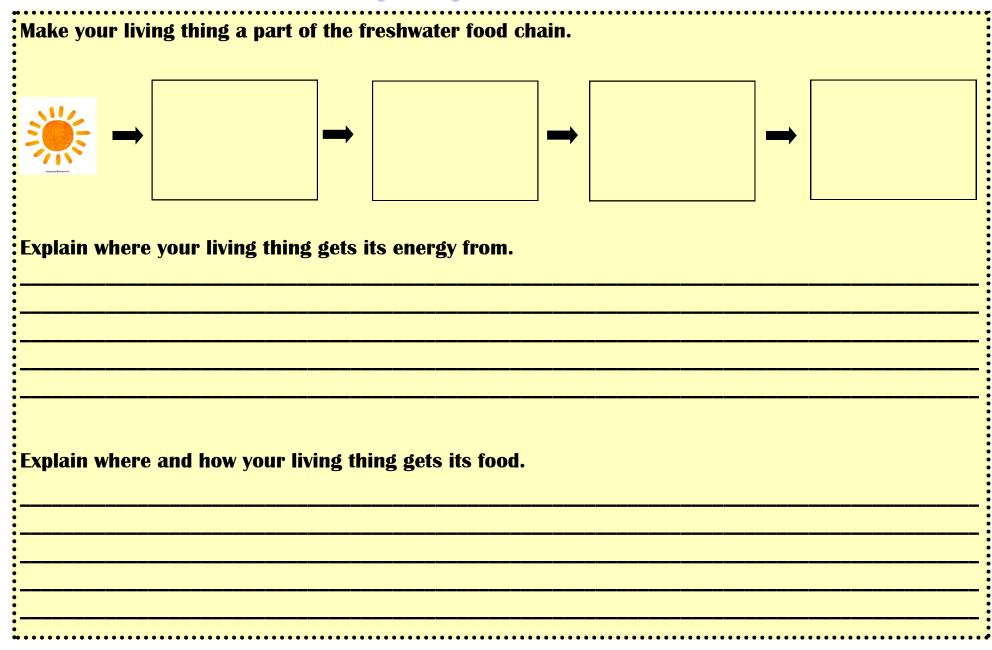
Black bear Bobcat Cow Florida panther Raccoon

#### **Consumer Diets**



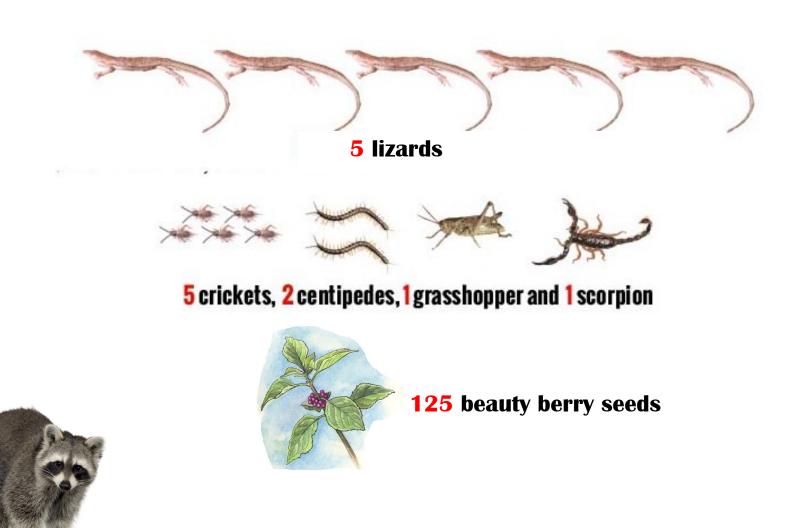
Draw the life cycle of your imaginary living thing. Circle the ONE life cycle that it goes through. Complete metamorphosis incomplete metamorphosis flowering plant simple life cycle non-flowering plant

### Your living thing in the food chain.

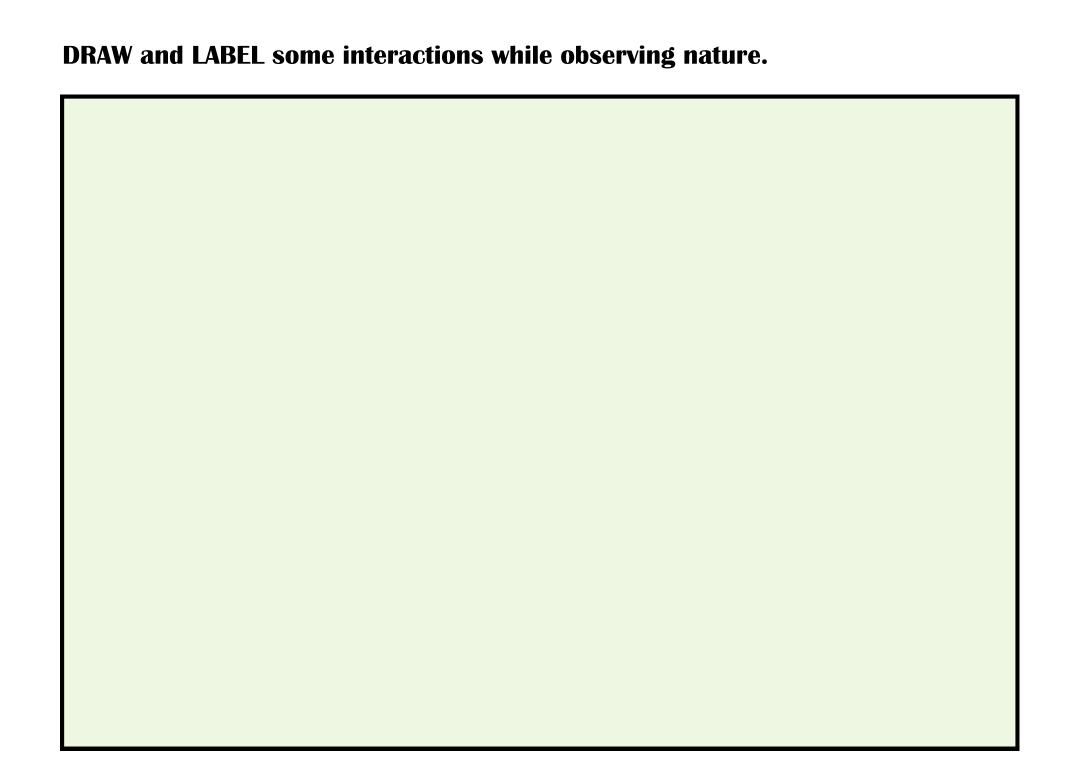


#### Raccoon's Energy

In one day, a raccoon consumed the following food items:



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vnat evide	nce do you h	lave?			
reate a fo	od chain wit	h the rac	coon.		
Toute a 10	ou ondin wit				
	<b>-</b>		<b>-</b>	<b>→</b>	



RAW and LAB	EL or describe	e three impact	ts pollution has	s on freshwate	r habitats.









Green tree frog

#### Funding for this Field Studies Program is provided by:





Reference: Information and diagrams in this field notebook, were taken from the following sources and are used purely for environmental education.

www.swfwmd.state.fl.us

www.fws.gov

http://pubs.usgs.gov



Adult bobcat and kitten (infant)

