



Getting to Know Georgia's Regions

A Walk Through Time in Georgia Scavenger Hunt: High School Biology

Piedmont Region

Examine the trees in the Piedmont region. Like all trees, they cycle carbon dioxide and oxygen through two processes.

The process by which plants use energy from the sun and convert it to produce sugar is called:

The process by which plants use stored energy to do metabolic work is called:

Explain how the structure of the trees' leaves help them to accomplish photosynthesis:



Ridge and Valley Region

Looking around at the Ridge and Valley mountain region, match up all of the organisms or environments with their proper designations.

Red fox

Ecosystem

Colony of bats

Community

Collection of mountain organisms

Organism

An individual mountain and everything on it

Biome

A mountain range

Population



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Can you find the copperhead in the Ridge and Valley Region? Explain how natural selection for better camouflage helps each subsequent generation achieve the following:

1. Live longer: _____
2. Produce more offspring: _____
3. Catch more prey: _____

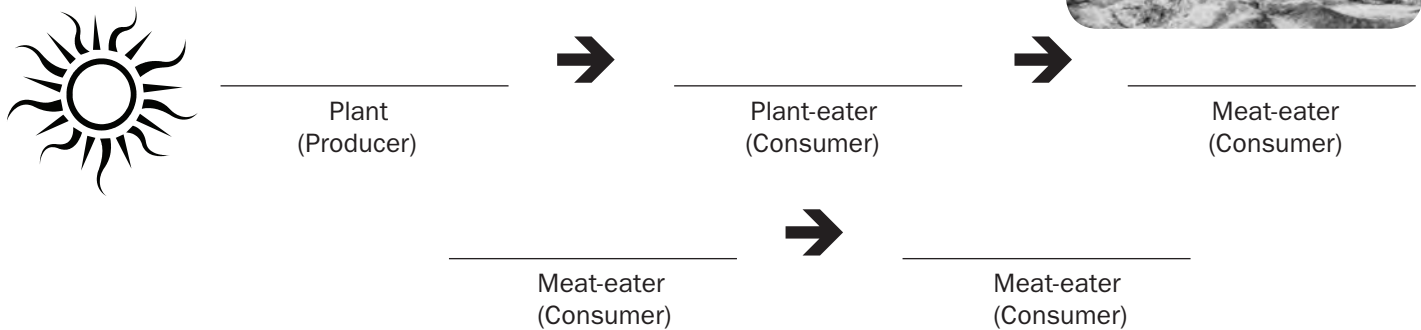
Notice the green lichens (a symbiotic relationship between fungi and algae) on the mountain rocks. Fungi and algae differ in function in that:

Fungi are _____, breaking down materials for nutrients and energy.

Algae are _____, able to make their own food and energy.

Coastal Plain Region

Using plants and animals from the Coastal Plain, create a food chain for this habitat.



Does the amount of energy increase or decrease as it gets passed along the food chain? _____

How are the nutrients that have been passed through this food chain recycled back into the environment? _____



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Okefenokee Swamp Region

On the cypress tree, notice that the trunk is very wide at the bottom. This is called a buttress. How do you think this helps the trees grow in the swamp?



Notice also that several of the bird species have long legs. This allows the birds to wade in the water looking for food. Pretending that you are a mother egret who wants the best for her offspring, you would pick a mate that has:

- longer legs shorter legs

This is an example of N _____ S _____ .

Coast and Barrier Islands Region

Explore the beach scene, then answer the following true or false statements.

- T F Sea turtle hatchlings have no natural predators.
- T F One of the largest causes of beach habitat destruction is human activity.
- T F Beach erosion is irreversible.



Gray's Reef

Take a look at the animals on Gray's Reef. Animals such as sponges and coral have the ability to reproduce sexually or asexually, and they choose which one depending on the current conditions of the environment. Give two benefits for each means of reproduction.

Sexual Reproduction:

1. _____
2. _____

Asexual Reproduction:

1. _____
2. _____