



BEATY BIODIVERSITY MUSEUM

Biodiversity Quiz

Test your biodiversity knowledge!

What does biodiversity mean to you?

How many Kingdoms can you name?

What is an adaptation?

Circle the terms you think are types of adaptations:

- | | |
|-------------|--------------|
| Symbiosis | Parasitism |
| Omnivore | Echolocation |
| Herbivore | Migration |
| Hibernation | Carnivore |

What is a food chain?



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From the words below, underline the species and circle the ecosystems:

| | | | |
|---------------|-----------|------------|---------|
| Tundra | Lion | Deer | Alpine |
| Trees | Beetle | Rainforest | Marine |
| Wetland | Whale | Dog | Desert |
| Boreal Forest | Grassland | Mountains | Ant |
| Crab | Riparian | Fish | Savanna |

What do you know about climate change and global warming?

How can you help protect our environment?

What do you know about the blue whale skeleton in our museum?

What questions do you have about biodiversity?

Do you have any other questions?



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Biodiversity Quiz

Advanced Level Answer Key

What does biodiversity mean to you?

The variety of life. This is the diversity, distribution, and genetic variation of organisms in an environment. Any answer talking about variety of living things is correct!

How many Kingdoms can you name?

Animalia, Plantae, Fungi, Protista, Prokaryota

What is an adaptation?

Something an organism possesses or uses to be more fit to its environment. Adaptations can be morphological, physiological, or behavioral. Physical adaptations occur over time and can include things like beak shape, changing a chemical used in cellular processes, developing flippers or thick leaves. Behavioral changes can be very immediate, and can include changing diet, the area in an ecosystem they occupy, or how the organism interacts with other species.

Circle the terms you think are types of adaptations:

All of these are adaptations! Symbiosis, parasitism, echolocation, migration and hibernation are fairly recent adaptations. But feeding strategies are adaptations (that happened a long time ago) so a species can get enough food! This is a great opportunity to discuss evolution, behavior, and adaptations over time.

Symbiosis Parasitism
Omnivore Echolocation
Herbivore Migration
Hibernation Carnivore

What is a food chain?

A directional feeding hierarchy in which organisms in an ecosystem are grouped into trophic (nutritional) levels and are shown in a succession to represent the flow of food energy and the feeding relationships between them.

Anything describing energy transfer, feeding relationships with a direction would be appropriate.



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Tundra Lion Deer Alpine
Trees Beetle Rainforest Marine
Wetland Whale Dog Desert
Boreal Forest Grassland Mountains Ant
Crab Riparian Fish Savanna

What do you know about climate change and global warming?

Climate change is the long-term pattern of weather change on the earth. Currently, scientists are concerned that humans are speeding up these natural patterns, creating more extreme cases of weather, including global warming, especially through carbon emissions causing the greenhouse effect. Global warming is the pattern of general temperature increase of the earth's surface over time.

Students can also discuss changes they notice, or what they can do to help.

How can you help to protect our environment?

There are many answers! Some include: recycling, composting, minimizing carbon emissions, eating fewer meat products, donating to environmental causes, becoming involved in community activities, using local products, avoiding unsustainably harvested food, or growing only native plants in your garden.

Come up with a class list, and have students pledge to do one protective activity for a certain length of time, for example, for the next month, all students will try to walk or ride their bike to class.

What do you know about the blue whale skeleton in our museum?

On the remote northwestern coast of PEI in 1987, a 26 m long mature female blue whale died and washed ashore near the town of Tignish. The blue whale skeleton is suspended in the museum for all visitors to see.

Students could research blue whale ecology or Prince Edward Island at this point. Find more information on our website: <http://www.beatymuseum.com/research/whale>

What questions do you have about biodiversity?

Come up with a class list to bring to the museum or create a research project!

Do you have any other questions?

Come up with a class list to bring to the museum or create a research project!