



DISCOVER *the* WORLD

EDUCATION

The Big Geography Quiz Summer 2022



ECOSYSTEMS

Round 1



Question 1

True or False: the ecosystem with the most biodiversity on Earth is found in the tropics.



Question 2

Plants usually compete for:

- a) Light
- b) Light & soil nutrients
- c) Light, soil nutrients & CO₂

A glass jar of white yogurt is the central focus, topped with fresh blueberries and a drizzle of honey. The jar sits on a rustic wooden surface, surrounded by scattered blueberries and oat flakes. A semi-transparent grey box with yellow and white text is overlaid on the left side of the image.

Question 3

Name one example of a producer in a food chain.

A photograph of three puffins standing on a grassy cliffside. The puffins have dark grey bodies, white chests, and distinctive colorful beaks (red, yellow, and blue). They are looking towards the camera. The background shows a clear blue sky and a blurred view of the ocean. The foreground is filled with green grass and some yellow and purple vegetation.

Question 4

What does 'biodiversity' mean?



Question 5

What's the difference between an omnivore and a herbivore?



Question 6

True or False: the taiga boreal forest is the world's largest land biome.



Question 7

What is a 'biotic' component of an ecosystem, and give an example?

Question 8

A species of plant or animal that is facing imminent extinction is:

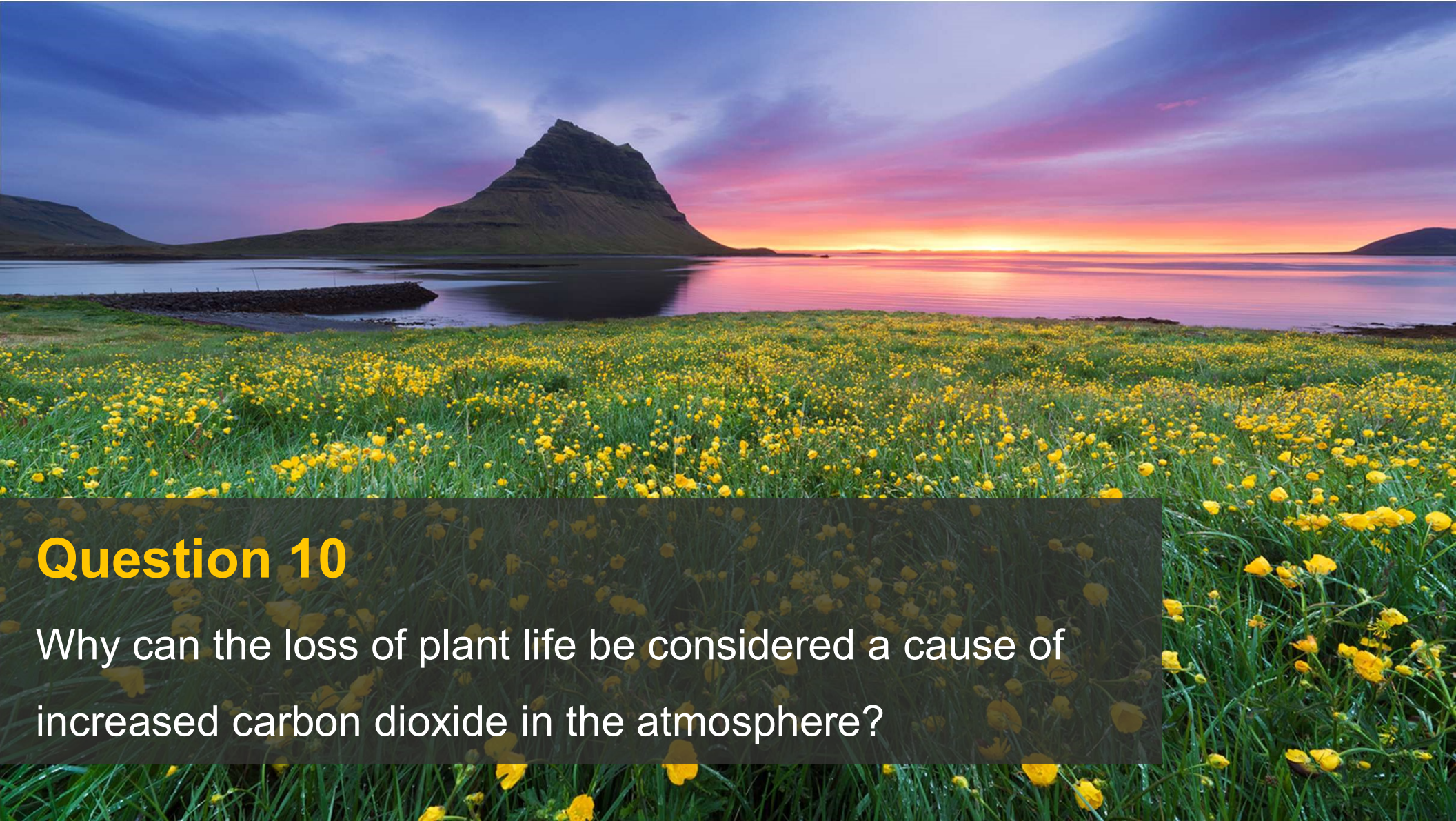
- a) Special Concern
- b) Threatened
- c) Endangered





Question 9

How can plastic waste be a concern to marine ecosystems?



Question 10

Why can the loss of plant life be considered a cause of increased carbon dioxide in the atmosphere?

Answers: - Round 1

1. True. The tropical rainforest and tropical aquatic ecosystems have the most.
2. B) Light and soil nutrients
3. A producer uses photosynthesis to capture energy & create food e.g. grass, trees, lichen, algae, bacteria, phytoplankton, etc.
4. Biodiversity is the level of all the different kinds of life found in an area
5. Omnivores eat both plants and animal matter, herbivores only eat plants
6. True, the taiga is the world's largest land biome, covering 50million acres of land (about 17% of Earth's surface)
7. Biotics components in an ecosystem are the living parts, e.g. fish, humans, dogs, etc.
8. C) Endangered
9. Plastic waste can cause harm to marine animal life such as turtles getting caught in it, suffocation, eating plastics and then dying of starvation, spreading bacteria, creating microplastics that get ingested, etc.
10. Plants act as carbon storage during photosynthesis, but when plants die or are cleared this CO₂ is released back to the atmosphere instead of being stored