

Science Toolkit: Grade 7 Objective 3.A.1.a

Student Handout: Science: Grade 7 Objective 3.A.1.a

Standard 3.0 Life Science

Topic A. Diversity of Life

Indicator 1. Compile evidence to verify the claim of biologists that the features of organisms connect or differentiate them-these include external and internal structures (features) and processes.

Objective a. Provide examples and explain that organisms sorted into groups share similarities in external structures as well as similarities in internal anatomical structures and processes which can be used to infer the degree of relatedness among organisms

Vascular - non vascular plants

Closed - open circulatory systems

Asexual - sexual reproduction

Respiration (lungs-gills-skin)

Digestion

Selected Response (SR) Item

Question

The sandbar shark and the bottlenose dolphin pictured below live in water. Though the animals look similar, the shark is classified as a fish and the dolphin is classified as a mammal.



Sandbar shark



Bottlenose dolphin

Which statement best supports classifying the shark as a fish and the dolphin as a mammal?

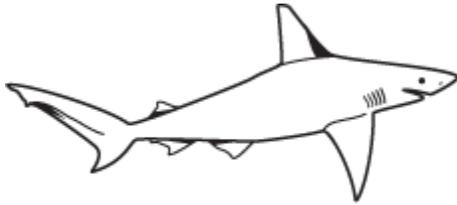
- A. One gets energy from sunlight; the other gets energy from food.
- B. One has several fins on the belly; the other has no fins on the belly.
- C. One breathes using gills; the other breathes through a blowhole and lungs.
- D. One has eyes on the front of the head; the other has eyes on the side of the head.

Correct Answer

C. One breathes using gills; the other breathes through a blowhole and lungs.

Question

The sandbar shark and the bottlenose dolphin pictured below live in water. Though the animals look similar, the shark is classified as a fish and the dolphin is classified as a mammal.



Sandbar shark



Bottlenose dolphin

Which statement best supports classifying the shark as a fish and the dolphin as a mammal?

- A. One gets energy from sunlight; the other gets energy from food.
- B. One has several fins on the belly; the other has no fins on the belly.
- C. One breathes using gills; the other breathes through a blowhole and lungs.
- D. One has eyes on the front of the head; the other has eyes on the side of the head.