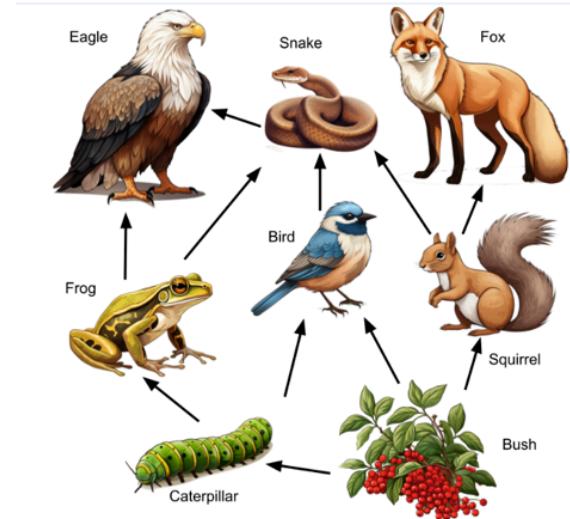


Which of the following organisms is considered omnivores?



a.

Frog

b.

Bird

c.

Snake

d.

Bush

How would increasing the amplitude of a sound wave affect its intensity?

Learning Outcomes Covered

- SCI.1.1.01.019
- SCI.4.1.02.041

a.

The intensity would decrease

b.

The intensity would remain the same

c.

The intensity would increase

d.

The intensity would vary randomly

If a disease wiped out the majority of autotrophs in an ecosystem, what would likely happen to the heterotroph population?

a.

The heterotroph population would increase due to less competition

b.

The heterotroph population would decrease due to a lack of food sources

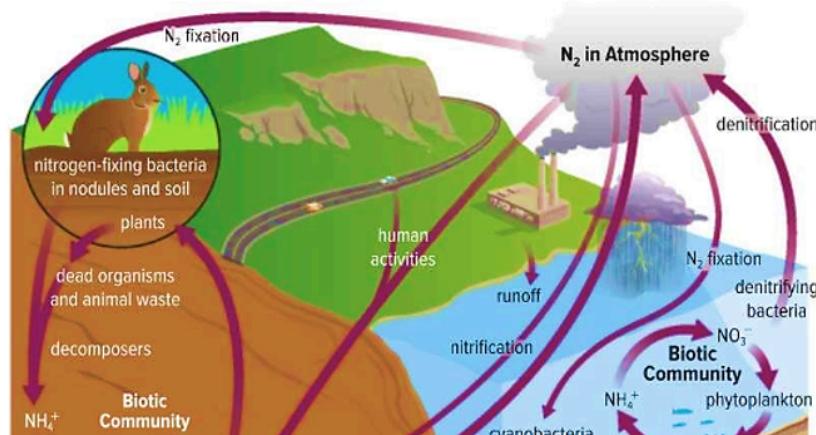
c.

The heterotroph population would remain unchanged

d.

The heterotroph population would become autotrophic

Which process indicates the conversion of nitrogen from the atmosphere into a form usable by plants?



a.

Denitrification

b.

Nitrification

c.

Nitrogen fixation

d.

Ammonification

A sound wave takes about 0.05 s to move through a material that is 25.0 m long. Using the data in the table below, What is this material?

Speed of Sound in Different Materials	
Material (at 20°C)	Speed (m/s)
Air	340
Cork	500
Steel	5800
Water	1500

Learning Outcomes Covered

- SCI.1.1.01.019
- SCI.4.1.02.041

a.

Air

b.

Cork

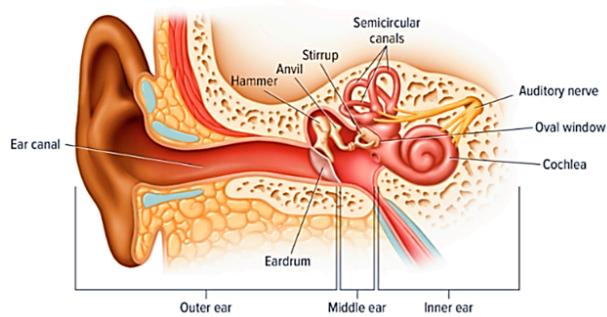
c.

Steel

d.

Water

Which part of the ear is a tough membrane that is about 0.1 mm thick and transmits sound from the outer ear to the middle ear?

**Learning Outcomes Covered**

- SCI.1.1.01.019
- SCI.4.1.02.041

a.

Anvil

b.

Stirrup

c.

Eardrum

d.

Cochlea



Which type of Biodiversity is seen in the figure below?



Learning Outcomes Covered

- SCI.3.2.01.017
- SCI.3.4.01.025

a.

Genetic diversity

b.

Plane diversity

c.

Species diversity

d.

Ecosystem diversity

At one time, huge flocks of passenger pigeons would darken the skies during their migration, but due to overhunting, they had become extinct by the early 1900s. What is this factor that threatens biodiversity called?

**Learning Outcomes Covered**

- SCI.3.2.01.017
- SCI.3.4.01.025

a.

Overexploitation

b.

Edge effect

c.

Biological magnification

d.

Eutrophication



In the example shown below:

- The sloth receives protection by camouflage from the green-colored algae.
- The algae take the sloth's fur as shelter and the fur provides the algae with the moisture it needs to survive.



What is the type of **symbiotic relationship** in the example?

Learning Outcomes Covered

- SCI.3.2.01.017
- SCI.3.4.01.025

a.

Mutualism

b.

Parasitism

c.

Commensalism

d.

Predator–prey

Q.10: particular species of fish

Mark(s): 4/4

If a researcher is studying how a particular species of fish feed in their environment, which level of organization is the researcher focusing on?



a.

Population

b.

Ecosystem

c.

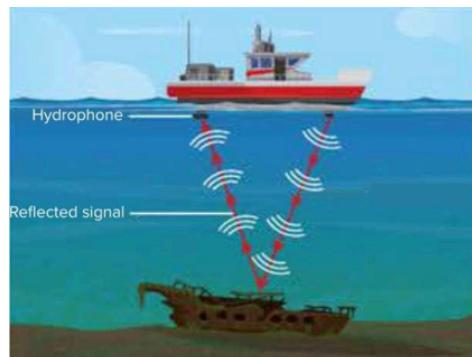
Biome

d.

Community

In the figure below scientists are trying to locate a sunken ship.

Which of the following is the technique they are using?



a.

Ultrasound

b.

Echolocation

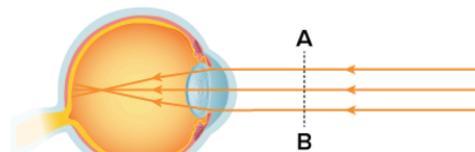
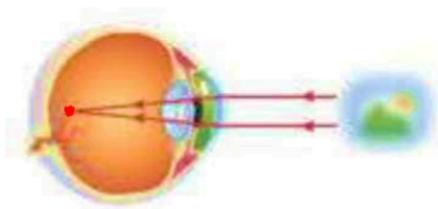
c.

Reverberation

d.

Sonar

This diagram of a human eye illustrates a common vision problem.



Which of the following statement is correct?

Learning Outcomes Covered

- SCI.1.1.02.014

a.

The Vision Problem	Type of the lens used to correct it
Nearsightedness	Concave

b.

The Vision Problem	Type of the lens used to correct it
Nearsightedness	Convex

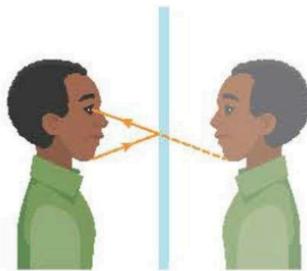
c.

The Vision Problem	Type of the lens used to correct it
Farsightedness	Concave

d.

The Vision Problem	Type of the lens used to correct it
Farsightedness	Convex

What is the main characteristic of an image formed by a plane mirror?



a.

The image is always smaller than the object

b.

The image is always larger than the object

c.

The image is always virtual and the same size as the object

d.

The image is always real and inverted

If two observers were watching a moving train, what would happen to the frequency of the whistle as the train moves away from the observers?



a.

The frequency would decrease and then increase again

b.

The frequency would remain the same away or near observers

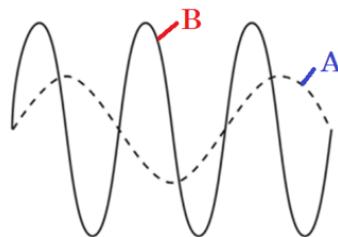
c.

The frequency would increase as the train moved away

d.

The frequency would decrease as the train moved away

Wave **A** has a frequency of 500 Hz and Wave **B** has a frequency of 1000 Hz. Which of the following statements best describes the relative pitch and wavelength of these waves?



a.

Wave **A** has a higher pitch and shorter wavelength than Wave **B**

b.

Wave **B** has a higher pitch and shorter wavelength than Wave **A**

c.

Wave **A** has a lower pitch and shorter wavelength than Wave **B**

d.

Wave **B** has a lower pitch and shorter wavelength than Wave **A**