

**Your Teacher's Question:** What are the responsibilities of a biologist?



## SHOW ME YOUR ACES!!!



**Answer the teacher's question in the form of a sentence:**

A biologist studies living organisms and their interactions with each other and the environment.

**Write an example:**

1C Biologists, like Sarkis Mazmanian, study the benefits of specific bacterium on our health.

**Explain/elaborate/expand upon your example:**

1E Sarkis Mazmanian studies the effects of the bacterium *Bacteroides fragilis* on inflamed intestines of mice. *Bacteroides fragilis* is injected into mice with irritated intestines, and the injected bacteria produces a sugar molecule that triggers the mice's immune system to make cells that fight the inflammation.

2C Other biologists discover new fish species from the deep ocean.

2E Biologists who study the diversity of species from the deep ocean search for undiscovered species of fish and other invertebrates. This is important since marine life makes up a large portion of the Earth's biomass, and is a vast resource of food, medicine and raw materials.

**Summarizing statement:**

A biologist's job responsibility is to study living organisms and their interactions with the environment. Their job is very important because understanding how all living things interact with one another is crucial for creating a safe and sanitary environment.

**Completed Paragraph:**

A biologist studies living organisms and their interactions with each other and the environment. Biologists, like Sarkis Mazmanian, study the benefits of specific bacterium on our health. Sarkis Mazmanian studies the effects of the bacterium *Bacteroides fragilis* on inflamed intestines of mice. *Bacteroides fragilis* is injected into mice with irritated intestines, and the bacteria produces a sugar molecule that triggers the mice's immune system to make cells that fight the inflammation. Other biologists discover new fish species from the deep ocean. Biologists who study the diversity of species from the deep ocean search for undiscovered species of fish and other invertebrates. This is important since marine life makes up a large portion of the Earth's biomass, and is a vast resource of food, medicine, and raw materials. In brief, a biologist's job responsibility is to study living organisms and their interactions with the environment. Their job is very important because understanding how all living things interact with one another is crucial for creating a safe and sanitary environment.

**ACES Scoring Tool**

<b>Focus</b> —Answered the teacher's question in the form of a sentence	5 points
<b>Content</b> —Cited 2 examples (text-based or self-based) explained each	10
<b>Organization</b> —Included introduction (A), body (C, E), and conclusion (S)	5
<b>Transitions</b> —Used transition words between C and E (first, second, another...)	5
<b>CUPS</b> —Capitalization, Usage, Punctuation, Spelling	5
	<b>/30 total</b>

