

Living And Nonliving Things Worksheet Questions and Answers PDF

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Part 1: Building a Foundation

Hint: Think about how organisms change to survive.

Which of the following is a characteristic of living things?		
Hint: Think about what defines living organisms.		
 A) They do not require energy. B) They are made up of cells. ✓ C) They do not respond to stimuli. D) They are not capable of reproduction. 		
Living things are characterized by being made up of cells. Which of the following are examples of nonliving things? (Select all that apply)		
Hint: Consider items that do not exhibit life characteristics.		
 A) Rocks ✓ B) Trees C) Water ✓ D) Animals 		
Nonliving things include rocks, water, but not trees or animals. Describe in your own words what it means for an organism to adapt to its environment.		



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Adaptation refers to changes in an organism that enhance its survival in a specific environment.
List two characteristics that distinguish living things from nonliving things.
Hint: Consider fundamental traits of life.
1. Characteristic 1
They grow.
2. Characteristic 2
They reproduce.
Living things grow and reproduce, while nonliving things do not.
Part 2: Comprehension and Application
Which statement best explains why a virus is often debated as being living or nonliving?
Hint: Consider the unique properties of viruses.
○ A) Viruses can reproduce on their own.
○ B) Viruses do not have a cellular structure. ✓
○ C) Viruses can grow and develop.
O) Viruses require energy from food.



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I	Viruses are often considered nonliving because they do not have a cellular structure.
WI	nich of the following processes are associated with living things? (Select all that apply)
Hir	nt: Think about the functions that living organisms perform.
	A) Metabolism ✓
	B) Photosynthesis ✓
	C) Evaporation D) Respiration ✓
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	Processes like metabolism and respiration are essential for living organisms.
	plain how nonliving elements like water and sunlight are essential for the survival of living ganisms.
Hir	nt: Consider the roles of these elements in ecosystems.
	Water and sunlight are crucial for processes like photosynthesis and hydration in living organisms.
	a plant is placed in a dark room, which characteristic of living things will be most directly ected?
Hir	nt: Think about how light influences plant growth.
\bigcirc	A) Growth ✓
0	B) Reproduction
0	C) Cellular structure D) Response to stimuli
Ī	Growth will be most directly affected as plants require light for photosynthesis.
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Consider a desert ecosystem. Which nonliving factors would most likely influence the types of living organisms found there? (Select all that apply)

Hint: I nink about the environmental conditions in a desert.
 □ A) Temperature ✓ □ B) Soil type ✓ □ C) Humidity ✓ □ D) Predation
Factors like temperature, soil type, and humidity influence the organisms in a desert ecosystem.
Provide an example of how a living organism might adapt to a sudden change in its environment.
Hint: Think about changes like climate or habitat loss.
An example could be animals changing their migration patterns due to climate change. Part 3: Analysis, Evaluation, and Creation
Which of the following best describes the relationship between living and nonliving things in an ecosystem?
Hint: Consider how living and nonliving components interact.
 A) Living things are independent of nonliving things. B) Nonliving things depend on living things for energy. C) Living things depend on nonliving things for survival. ✓ D) Nonliving things are unaffected by living things.
Living things depend on nonliving things for survival, such as water and nutrients.



Analyze the following scenario: A forest fire has destroyed a large area of trees. Which living and nonliving factors will be most affected? (Select all that apply)

Hint: Think about the immediate impacts of such an event.
 A) Soil nutrients ✓ B) Animal habitats ✓ C) Water availability ✓ D) Plant diversity ✓
Soil nutrients, animal habitats, and plant diversity will be significantly affected.
Discuss how the removal of a single nonliving element, such as water, could impact an entire ecosystem.
Hint: Consider the role of water in supporting life.
The removal of water would lead to the collapse of many living organisms and disrupt the ecosystem.
Evaluate the following statement: "All living things are dependent on sunlight." Which of the following is a correct assessment?
Hint: Think about the energy sources for different organisms.
A) True, because all living things perform photosynthesis.
○ B) False, because some living things can survive without sunlight. ✓
C) True, because sunlight is the only source of energy.
O) False, because sunlight is not needed for cellular respiration.
The statement is false because some living things can survive without sunlight.

Consider a city park ecosystem. Which actions could improve the interaction between living and nonliving components? (Select all that apply)



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Hir	nt: Think about ways to enhance ecosystem health.
	A) Plantting more trees ✓ B) Reducing water pollution ✓ C) Increasing concrete surfaces D) Introducing new animal species
I	Actions like planting trees and reducing pollution can improve ecosystem interactions.
	opose a plan to create a small garden ecosystem, detailing how you would balance living and nliving components to ensure sustainability.
Hir	nt: Consider the types of plants and animals you would include.
	A sustainable garden ecosystem would include diverse plants, proper water management, and native species.