

Living And Nonliving Things Worksheet

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Part 1: Building a Foundation

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.

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

Describe in your own words what it means for an organism to adapt to its environment.

Hint: Think about how organisms change to survive.

List two characteristics that distinguish living things from nonliving things.

Hint: Consider fundamental traits of life.

1. Characteristic 1

2. Characteristic 2

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.
- D) Viruses require energy from food.

Which of the following processes are associated with living things? (Select all that apply)

Hint: Think about the functions that living organisms perform.

- A) Metabolism
- B) Photosynthesis
- C) Evaporation
- D) Respiration

Explain how nonliving elements like water and sunlight are essential for the survival of living organisms.

Hint: Consider the roles of these elements in ecosystems.

If a plant is placed in a dark room, which characteristic of living things will be most directly affected?

Hint: Think about how light influences plant growth.

- A) Growth
- B) Reproduction
- C) Cellular structure
- D) Response to stimuli

Consider a desert ecosystem. Which nonliving factors would most likely influence the types of living organisms found there? (Select all that apply)

Hint: Think about the environmental conditions in a desert.

- A) Temperature
- B) Soil type
- C) Humidity
- D) Predation

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.

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.

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

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.

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.
 D) False, because sunlight is not needed for cellular respiration.

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

Hint: Think about ways to enhance ecosystem health.

- A) Planting more trees
 B) Reducing water pollution
 C) Increasing concrete surfaces
 D) Introducing new animal species

Propose a plan to create a small garden ecosystem, detailing how you would balance living and nonliving components to ensure sustainability.

Hint: Consider the types of plants and animals you would include.