

Living Non Living Worksheet

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Part 1: Understanding Living and Non-Living Things

Which of the following is a characteristic of living things?

Hint: Think about what defines life.

- A) Ability to fly
- B) Growth and development
- C) Made of plastic
- D) Ability to rust

Which of the following is a characteristic of living things?

Hint: Think about the essential traits that define life.

- A) Ability to fly
- B) Growth and development
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Which of the following is a characteristic of living things?

Hint: Consider the fundamental traits of living organisms.

- A) Ability to fly
- B) Growth and development
- C) Made of plastic
- D) Ability to rust

Select all the characteristics that are true for living things.

Hint: Consider the essential functions of life.

- A) Reproduction

- B) Metabolism
- C) Inability to move
- D) Cellular organization

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Explain what is meant by the term 'homeostasis' and why it is important for living organisms.

Hint: Think about balance and stability in living systems.

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Hint: Think about how organisms maintain stable internal conditions.

Explain what is meant by the term 'homeostasis' and why it is important for living organisms.

Hint: Consider the balance and stability in biological systems.

List two examples of living things and two examples of non-living things.

Hint: Think about the categories of life and matter.

1. Living Thing 1

2. Living Thing 2

3. Non-Living Thing 1

4. Non-Living Thing 2

Which of the following is NOT a characteristic of non-living things?

Hint: Consider what defines non-living entities.

- A) Lack of growth
- B) Cellular organization

- C) No metabolism
- D) Inability to reproduce

Which of the following is NOT a characteristic of non-living things?

Hint: Consider the traits that define non-living entities.

- A) Lack of growth
- B) Cellular organization
- C) No metabolism
- D) Inability to reproduce

Part 2: Interpreting Characteristics of Living and Non-Living Things

Why do living things need to respond to stimuli?

Hint: Think about survival and adaptation.

- A) To change color
- B) To survive and adapt to their environment
- C) To grow larger
- D) To reproduce

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Which of the following processes are involved in metabolism?

Hint: Consider the chemical processes that sustain life.

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- B) Respiration
- C) Evaporation
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Describe how cellular organization is crucial for the functioning of living organisms.

Hint: Think about the structure and function relationship.

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Part 3: Applying and Analyzing Concepts

If a scientist discovers a new organism that can reproduce and respond to stimuli but does not grow, is it considered living or non-living?

Hint: Consider the essential characteristics of life.

- A) Living
- B) Non-living
- C) Unknown
- D) Undetermined

Which scenarios demonstrate the application of homeostasis in living organisms?

Hint: Think about how organisms maintain internal balance.

- A) A human sweating to cool down
- B) A plant growing towards light
- C) A rock eroding over time
- D) A dog panting to release heat

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Provide an example of how an animal adapts to its environment and explain the significance of this adaptation.

Hint: Think about specific adaptations and their benefits.

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Which of the following best explains the relationship between metabolism and energy in living organisms?

Hint: Consider how organisms obtain and use energy.

- A) Metabolism stores energy
- B) Metabolism releases energy from food
- C) Metabolism creates energy from water
- D) Metabolism uses energy to grow

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Analyze the following scenarios and identify which involve living organisms adapting to their environment.

Hint: Think about behaviors and physical changes.

- A) A bird migrating south for the winter
- B) A river carving a canyon
- C) A cactus storing water in its stem
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Analyze the following scenarios and identify which involve living organisms adapting to their environment.

Hint: Consider the actions of organisms in response to environmental changes.

- A) A bird migrating south for the winter
- B) A river carving a canyon
- C) A cactus storing water in its stem
- D) A car rustling over time

Compare and contrast the processes of growth in living organisms and the changes in non-living things over time.

Hint: Think about how growth differs between living and non-living entities.

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Hint: Think about how growth is defined in both categories.

Compare and contrast the processes of growth in living organisms and the changes in non-living things over time.

Hint: Think about the differences in growth mechanisms.

Part 4: Synthesis and Reflection

Which statement best evaluates the importance of reproduction in the survival of a species?

Hint: Consider the role of reproduction in species continuity.

- A) It ensures individual survival
- B) It allows for genetic diversity and continuation of the species
- C) It is not essential for survival
- D) It only occurs in plants

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Evaluate the following statements and select those that correctly describe the role of adaptation in evolution.

Hint: Think about how adaptation influences species over time.

- A) Adaptation leads to the survival of the fittest
- B) Adaptation is a random process with no impact on evolution
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Imagine a new planet with different environmental conditions. Describe a hypothetical living organism that could survive there, detailing its adaptations and characteristics.

Hint: Think creatively about life in different environments.

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Hint: Consider the unique challenges of the new environment.