Living Non Living Worksheet Answer Key PDF

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Part 1: Understanding Living and Non-Living Things

Which of the following is a characteristic of living things?

undefined. A) Ability to fly

undefined. B) Growth and development ✓

undefined. C) Made of plastic

undefined. D) Ability to rust

The correct answer is B) Growth and development, as it is a fundamental characteristic of living organisms.

Which of the following is a characteristic of living things?

undefined. A) Ability to fly

undefined. B) Growth and development ✓

undefined. C) Made of plastic

undefined. D) Ability to rust

Growth and development is a key characteristic of living things.

Which of the following is a characteristic of living things?

undefined. A) Ability to fly

undefined. B) Growth and development ✓

undefined. C) Made of plastic

undefined. D) Ability to rust

The correct answer is B) Growth and development.

Select all the characteristics that are true for living things.

undefined. A) Reproduction ✓

undefined. B) Metabolism ✓

undefined. C) Inability to move

undefined. D) Cellular organization ✓

The correct answers are A) Reproduction, B) Metabolism, and D) Cellular organization.

Select all the characteristics that are true for living things.

undefined. A) Reproduction ✓

undefined. B) Metabolism ✓

undefined. C) Inability to move

undefined. D) Cellular organization ✓

Reproduction, metabolism, and cellular organization are characteristics of living things.

Select all the characteristics that are true for living things.

undefined. A) Reproduction ✓

undefined. B) Metabolism ✓

undefined. C) Inability to move

undefined. D) Cellular organization ✓

The correct answers are A) Reproduction, B) Metabolism, and D) Cellular organization.

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

Homeostasis refers to the ability of living organisms to maintain a stable internal environment, which is crucial for survival.

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Homeostasis refers to the ability of living organisms to maintain stable internal conditions, which is crucial for survival.

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

1. Living Thing 1

Dog

2. Living Thing 2

Tree

3. Non-Living Thing 1

Rock

4. Non-Living Thing 2

Water

Examples of living things include animals and plants, while non-living things include rocks and water.

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

undefined. A) Lack of growth

undefined. B) Cellular organization ✓

undefined. C) No metabolism

undefined. D) Inability to reproduce

The correct answer is B) Cellular organization, as non-living things do not have cellular structures.

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

undefined. A) Lack of growth

undefined. B) Cellular organization ✓

undefined. C) No metabolism

undefined. D) Inability to reproduce

Cellular organization is a characteristic of living things, not non-living things.

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

Why do living things need to respond to stimuli?

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

Living things need to respond to stimuli to survive and adapt to their environment.

Why do living things need to respond to stimuli?

undefined. A) To change color
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Why do living things need to respond to stimuli?

undefined. A) To change color
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undefined. C) To grow larger
undefined. D) To reproduce

Living things need to respond to stimuli to survive and adapt to their environment.

Which of the following processes are involved in metabolism?

undefined. A) Photosynthesis ✓
undefined. B) Respiration ✓
undefined. C) Evaporation
undefined. D) Digestion ✓

The correct answers are A) Photosynthesis, B) Respiration, and D) Digestion.

Which of the following processes are involved in metabolism?

undefined. A) Photosynthesis ✓

undefined. B) Respiration ✓
undefined. C) Evaporation
undefined. D) Digestion ✓

Photosynthesis, respiration, and digestion are all processes involved in metabolism.

Which of the following processes are involved in metabolism?

undefined. A) Photosynthesis ✓
undefined. B) Respiration ✓
undefined. C) Evaporation
undefined. D) Digestion ✓

The correct answers are A) Photosynthesis, B) Respiration, and D) Digestion.

Describe how cellular organization is crucial for the functioning of living organisms.

Cellular organization is essential for the functioning of living organisms as it allows for specialization and efficient functioning.

Describe how cellular organization is crucial for the functioning of living organisms.

Cellular organization is essential as it allows for specialization and efficient functioning of biological processes.

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Cellular organization is essential as it allows for specialization and efficient functioning of biological processes.

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?

undefined. A) Living ✓
undefined. B) Non-living

undefined. C) Unknown

undefined. D) Undetermined

The organism would be considered living, as it can reproduce and respond to stimuli.

Which scenarios demonstrate the application of homeostasis in living organisms?

undefined. A) A human sweating to cool down ✓

undefined. B) A plant growing towards light ✓

undefined. C) A rock eroding over time

undefined. D) A dog pantting to release heat ✓

The correct answers are A) A human sweating to cool down, B) A plant growing towards light, and D) A dog pantting to release heat.

Which scenarios demonstrate the application of homeostasis in living organisms?

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A human sweating to cool down, a plant growing towards light, and a dog pantting to release heat are examples of homeostasis.

Which scenarios demonstrate the application of homeostasis in living organisms?

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The correct answers are A) A human sweating to cool down, B) A plant growing towards light, and D) A dog pantting to release heat.

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

An example could be a polar bear's thick fur, which helps it survive in cold climates.

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

An example could be a polar bear's thick fur for insulation in cold climates, which is crucial for survival.

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

An example could be a polar bear's thick fur, which helps it survive in cold climates.

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

undefined. A) Metabolism stores energy

undefined. B) Metabolism releases energy from food ✓

undefined. C) Metabolism creates energy from water

undefined. D) Metabolism uses energy to grow

The correct answer is B) Metabolism releases energy from food, which is essential for life processes.

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

undefined. A) Metabolism stores energy

undefined. B) Metabolism releases energy from food ✓

undefined. C) Metabolism creates energy from water

undefined. D) Metabolism uses energy to grow

Metabolism releases energy from food, which is essential for all life processes.

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

undefined. A) Metabolism stores energy

undefined. B) Metabolism releases energy from food ✓

undefined. C) Metabolism creates energy from water

undefined. D) Metabolism uses energy to grow

The correct answer is B) Metabolism releases energy from food.

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

undefined. A) A bird migrating south for the winter ✓

undefined. B) A river carving a canyon

undefined. C) A cactus storing water in its stem ✓

undefined. D) A car rustling over time

The correct answers are A) A bird migrating south for the winter, and C) A cactus storing water in its stem.

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

undefined. A) A bird migrating south for the winter ✓

undefined. B) A river carving a canyon

undefined. C) A cactus storing water in its stem ✓

undefined. D) A car rustling over time

A bird migrating south for the winter and a cactus storing water in its stem are examples of adaptation.

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

undefined. A) A bird migrating south for the winter ✓

undefined. B) A river carving a canyon

undefined. C) A cactus storing water in its stem ✓

undefined. D) A car rustling over time

The correct answers are A) A bird migrating south for the winter, and C) A cactus storing water in its stem.

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

Growth in living organisms involves cellular division and development, while non-living things may change due to external factors without growth.

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

Growth in living organisms involves cellular division and development, while non-living things change due to external factors.

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

Living organisms grow through cellular division and development, while non-living things change due to external factors.

Part 4: Synthesis and Reflection

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

undefined. A) It ensures individual survival

undefined. B) It allows for genetic diversity and continuation of the species ✓

undefined. C) It is not essential for survival

undefined. D) It only occurs in plants

The correct answer is B) It allows for genetic diversity and continuation of the species.

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undefined. D) It only occurs in plants

Reproduction allows for genetic diversity and continuation of the species, which is vital for survival.

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

undefined. A) It ensures individual survival

undefined. B) It allows for genetic diversity and continuation of the species ✓

undefined. C) It is not essential for survival

undefined. D) It only occurs in plants

The correct answer is B) It allows for genetic diversity and continuation of the species.

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

undefined. A) Adaptation leads to the survival of the fittest ✓

undefined. B) Adaptation is a random process with no impact on evolution

undefined. C) Adaptation can result in new species over time ✓

undefined. D) Adaptation is unnecessary for species in stable environments

The correct answers are A) Adaptation leads to the survival of the fittest, and C) Adaptation can result in new species over time.

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

undefined. A) Adaptation leads to the survival of the fittest ✓

undefined. B) Adaptation is a random process with no impact on evolution

undefined. C) Adaptation can result in new species over time ✓

undefined. D) Adaptation is unnecessary for species in stable environments

Adaptation leads to the survival of the fittest and can result in new species over time.

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

undefined. A) Adaptation leads to the survival of the fittest ✓

undefined. B) Adaptation is a random process with no impact on evolution

undefined. C) Adaptation can result in new species over time ✓

undefined. D) Adaptation is unnecessary for species in stable environments

The correct answers are A) Adaptation leads to the survival of the fittest, C) Adaptation can result in new species over time.

Imagine a new planet with different environmental conditions. Describe a hypothetical living organism that could survive there, detailing its adaptations and characteristics.

A hypothetical organism could have adaptations like thick skin to withstand extreme temperatures and specialized organs for nutrient absorption.

Imagine a new planet with different environmental conditions. Describe a hypothetical living organism that could survive there, detailing its adaptations and characteristics.

A hypothetical organism could have adaptations like a thick outer shell for protection against extreme temperatures.

Imagine a new planet with different environmental conditions. Describe a hypothetical living organism that could survive there, detailing its adaptations and characteristics.

A hypothetical organism might have adaptations like a thick outer shell to withstand extreme temperatures.