


This chapter has 54 questions.

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questions at random and

keep in order 

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| <input type="checkbox"/> Bloom's Level: 4. Analyze - (1) | <input type="checkbox"/> Topic: Theories of Evolution and Heredity - (7) |
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1. The role of principles in zoology is best described as

- researchers should maintain high principles of conduct in research.
- zoology rests solely upon expansion of principles of chemistry and physics.
- principles of zoology are derived by study of a few different animals and then finding central unifying principles.
- past principles may be discarded as new principles replace them.
- none of the choices offer a thorough description of principles underlying zoology.

Select 

Accessibility: Keyboard Navigation

Bloom's Level: 2. Understand

Gradable: automatic

Section: The Uses of Principles


Topic: The Uses of Principles

Multiple Choice Question

The role of principles in zoology is best d...

2. The property of living organisms that involves a unique and complex molecular organization is called

- growth.
- development.
- metabolism.
- reproduction.
- chemical uniqueness.

Select 

Accessibility: Keyboard Navigation

Bloom's Level: 1. Remember

Gradable: automatic

Section: Fundamental Properties of

Life

Topic: Fundamental Properties of Life

Multiple Choice Question

The property of living organisms that involves a u...

3. A characteristic of science is that

Select



- it is not explained by natural laws.
- its hypotheses are testable.
- its conclusions are final.
- it is not falsifiable.
- it seeks to define the vitalistic forces of life.

Accessibility: Keyboard Navigation

Bloom's Level: 2. Understand

Gradable: automatic

Section: Principles of Science

Topic: Principles of Science

Multiple Choice Question

A characteristic of science is that

4. A cell dies and its complex organic molecules degrade into a mass of simple molecules no more organized than the non-living matter outside the cell. This feature of life, which is now lost, is
- growth and reproduction.
 - adaptability.
 - metabolism.
 - irritability.
 - complexity and hierarchical organization.

Select



Accessibility: Keyboard Navigation

Bloom's Level: 2. Understand

Gradable: automatic

Section: Fundamental Properties of

Life

Multiple Choice Question

A cell dies and its complex organic molecules
degr...

Topic: Fundamental Properties of

Life

5. Which of the following is NOT one of the characteristics of living organisms?
- Unique and complex molecular organization
 - Response to stimuli in environment
 - Reproduction
 - Metabolism
 - All of the choices are characteristics of living organisms

Select



Accessibility: Keyboard Navigation

Bloom's Level: 1. Remember

Gradable: automatic

Section: Fundamental Properties of

Life

Multiple Choice Question

Which of the following is NOT one of the
character...

Topic: Fundamental Properties of

Life

Select



6. Which hierarchy of organization is seen in multicellular organisms such as animals, going from smallest to largest?
- Cell, organ, tissue, organism

- Cell, organ, organ system, tissue
- Cell, tissue, organ system, organism
- Organism, organ system, organ, tissue
- Tissue, organ system, cell, organism

Accessibility: Keyboard Navigation
 Bloom's Level: 2. Understand
 Gradable: automatic
 Section: Fundamental Properties of Life
 Topic: Fundamental Properties of Life

Multiple Choice Question

Which hierarchy of organization is seen in multicell...

7. The structure of a brick does not predict the design of a home. Study of muscle tissues does not allow you to predict the design of a bird or snake. Such examples demonstrate

- the essential properties found in all forms of life.
- the hierarchy of organization from atom to biosphere.
- deterministic philosophy or how all phenomena are predictable effects of causes.
- emergent properties that cannot be predicted by examining component parts.



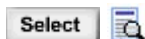
Accessibility: Keyboard Navigation
 Bloom's Level: 3. Apply
 Gradable: automatic
 Section: Fundamental Properties of Life
 Topic: Fundamental Properties of Life

Multiple Choice Question

The structure of a brick does not predict the desi...

8. Which of the following characteristics is NOT required for the life of an individual organism to continue?

- To maintain chemical uniqueness and organization
- To respond to stimuli
- To evolve
- To possess a genetic program to control cell processes



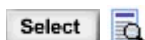
Accessibility: Keyboard Navigation
 Bloom's Level: 2. Understand
 Gradable: automatic
 Section: Fundamental Properties of Life
 Topic: Fundamental Properties of Life

Multiple Choice Question

Which of the following characteristics is NOT requ...

9. Which statement about living things is FALSE?

- Living things are made up of cells
- Living things obey the laws of chemistry and physics



- Living things show organization and other common characteristics of life
- Emergent properties arise from interactions among the components of a system
- Living things are composed only of organic elements, whereas nonliving things are made up of inorganic elements

Accessibility: Keyboard Navigation

Bloom's Level: 1. Remember

Gradable: automatic

Multiple Choice Question

Section: Fundamental Properties of Life

Which statement about living things is FALSE? Topic: Fundamental Properties of Life

10. "Self-replicating molecular assemblage" is a classic definition of life. However, clay particles in clay soil contain aluminum and iron compounds that determine the pattern of particles in adjacent layers over time and, therefore, represent a self-replicating molecular assemblage. What can we conclude?

- Clay soil is living
- Clay soil is not living because there was no molecular change involved
- Clay soil is not living because no carbon is involved; otherwise, such replication would be living
- Clay soil is not living because what is described is a simple repetitive process without the ability to evolve or respond to the environment

Select



Accessibility: Keyboard Navigation

Bloom's Level: 3. Apply

Gradable: automatic

Multiple Choice Question

Section: Fundamental Properties of

Self-replicating molecular assemblage is a class...

Life

Topic: Fundamental Properties of Life

11. All of the chemical energy transformations that occur within a cell constitute

- evolution.
- metabolism.
- adaptation.
- homeostasis.

Select



Accessibility: Keyboard Navigation

Bloom's Level: 1. Remember

Gradable: automatic

Multiple Choice Question

Section: Fundamental Properties of

All of the chemical energy transformations that oc...

Life

Topic: Fundamental Properties of Life

Select



12. "Cryptobiosis" is a state of almost total water loss found in some roundworms, rotifers, and tardigrades and was previously considered a *near cessation* of metabolism. Recently, a British Museum botanist accidentally spilled fluid on a 120+-year-old herbarium mount of a lichen. Fearing damage to the specimen, he immediately inspected it under the microscope and found tardigrades "waking up." This observation

- supports the claim that the tardigrades were dead but began respiring again at a very slow rate after the fluid was added.
- makes it possible that we can bring most dead animals back to life.
- contradicts both the cell theory and evolutionary theory.
- indicates metabolism did not stop, and that organization and water made it sufficient to maintain the possibility for "life."

Accessibility: Keyboard Navigation

Bloom's Level: 4. Analyze

Gradable: automatic

Multiple Choice Question

Section: Fundamental Properties of Life

"Cryptobiosis" is a state of almost total water...

Topic: Fundamental Properties of Life

13. Reproduction of organisms involves the apparently contradictory phenomena of

- cellular and noncellular structures.
- catabolism and anabolism.
- adaptation and evolution.
- variation and heredity.

Select



Accessibility: Keyboard Navigation

Bloom's Level: 2. Understand

Gradable: automatic

Section: Fundamental Properties of

Life

Multiple Choice Question

Reproduction of organisms involves the apparently ...

Topic: Fundamental Properties of

Life

14. The main function of a genetic program is to

- maintain metabolism in living systems.
- respond to environmental stimuli.
- provide fidelity of inheritance and allow for genetic variation.
- regulate development of multicellular creatures.

Select



Accessibility: Keyboard Navigation

Bloom's Level: 2. Understand

Gradable: automatic

Multiple Choice Question

Section: Fundamental Properties of Life

The main function of a genetic program is to...

Topic: Fundamental Properties of Life

Select



15. A molecular pathway in the liver that is responsible for breaking down complex molecules into simple molecules for excretion as wastes is an example of

- anabolism.
- catabolism.
- adaptation.
- entropy.

Multiple Choice Question
A molecular pathway in the liver that is
responsib...

Accessibility: Keyboard Navigation
Bloom's Level: 1. Remember
Gradable: automatic
Section: Fundamental Properties of
Life
Topic: Fundamental Properties of Life

16. Embryos, larvae, and metamorphosis are related to which characteristic of living
systems?

- Development
 Metabolism
 Movement
 Environmental interaction

Select 

Accessibility: Keyboard Navigation
Bloom's Level: 2. Understand
Gradable: automatic
Section: Fundamental Properties of
Life
Topic: Fundamental Properties of
Life

Multiple Choice Question
Embryos, larvae, and metamorphosis are related
to ...

17. Irritability is related to which general property of living systems?

- Development
 Metabolism
 Evolution
→ Environmental interaction

Select 

Accessibility: Keyboard Navigation
Bloom's Level: 1. Remember
Gradable: automatic
Section: Fundamental Properties of
Life
Topic: Fundamental Properties of Life

Multiple Choice Question
Irritability is related to which general
property ...

18. Which statement about environmental interaction is NOT correct?

- Study of organisms and their interactions with the environment is called
ecology
→ To study ecology, we must separate living organisms from their
environment
 The evolutionary history of a lineage is connected to the environment
where it lived
 Organisms are intimately connected with their physical environment

Select 

Multiple Choice Question
Which statement(s) about environmental
interaction...

Accessibility: Keyboard Navigation
Bloom's Level: 2. Understand
Gradable: automatic
Section: Fundamental Properties of

Life

Topic: Fundamental Properties of

Life

19. Which best describes the first law of thermodynamics?

- Energy is neither created nor destroyed, but it can change from one energy form to another
- Energy can be created from matter or used to produce matter
- Useful energy is lost as heat whenever an energy transfer occurs
- Energy transfers are always 100% efficient in changing energy from one form to another

Select



Accessibility: Keyboard Navigation

Bloom's Level: 1. Remember

Gradable: automatic

Section: Fundamental Properties of

Life

Multiple Choice Question

Which best describes the first law of thermodynami...

Topic: Fundamental Properties of

Life

20. The second law of thermodynamics, or entropy law, means that for living organisms

- maintaining cellular organization requires continual energy input.
- there is a tendency in nature to greater molecular organization.
- energy stored by plants is unavailable for animals.
- energy is of less concern than matter.

Select



Accessibility: Keyboard Navigation

Bloom's Level: 2. Understand

Gradable: automatic

Section: Fundamental Properties of

Life

Multiple Choice Question

The second law of thermodynamics, or entropy law,
...

Topic: Fundamental Properties of

Life

Select



21. Which is consistent with the laws of physics governing energy?

- As a car burns gasoline, 100% of the fuel energy goes into moving the car along the road
- You eat a "quarter-pounder" hamburger and assemble exactly a quarter pound of additional body weight on your body
- Sunlight that is absorbed on the earth eventually returns to space as dispersed heat
- Chemical bonds are an example of converting energy to matter; breaking the bonds converts matter to energy

Multiple Choice Question

Which is consistent with the laws of physics gover...

Accessibility: Keyboard Navigation

Bloom's Level: 3. Apply

Gradable: automatic


Section: Fundamental Properties of

Life

Topic: Fundamental Properties of
Life

22. Science cannot yet describe "thinking" in physical terms. However, we know that it involves metabolism within brain cells. With positron emission tomography (PET) scan or activity nuclear magnetic resonance (NMR) it is possible to image the regions of the brain that are most metabolically active during various mental activities. For different mental functions, different regions and nerve cells become active. However,

- the cellular energy expended in "thinking" must be less than the chemical bond energy supplied in food to these brain cells.
- "thought" cannot be linked to cell processes because energy is not related to matter.
- since thoughts can repeat, the requirement for a continual input of energy to prevent entropy does not apply to this cell activity.
- "thinking" is beyond the scope of science to study.

Select 

Accessibility: Keyboard Navigation

Bloom's Level: 3. Apply

Gradable: automatic

Section: Fundamental Properties of

Life

Multiple Choice Question

Science cannot yet describe thinking in
physical...

Topic: Fundamental Properties of Life

23. Living organisms represent stored energy in the form of chemical compounds. When they die, what happens to this stored energy?

- Chemical compounds immediately begin to lose their high energy bonds
- Chemical compounds immediately begin to degrade into basic elements
- Macromolecules in cells begin to lose their organization because there is no longer an input of energy to maintain the organized state
- Macromolecules in cells remain in place and ready for use unless digested by a consumer or decay organism

Select 

Accessibility: Keyboard Navigation

Bloom's Level: 3. Apply

Gradable: automatic

Section: Fundamental Properties of

Life

Multiple Choice Question

Living organisms represent stored energy in the
fo...

Topic: Fundamental Properties of

Life

Select 

24. Eventually the sun will swell to become a red giant star. This red giant will engulf the earth and then "burn out." All forms of energy will be dispersed in a final "heat death." Compared with conditions today, the total entropy of the universe then will

- have increased only slightly.
- have decreased greatly.
- have increased greatly.
- None of the choices are correct.

Multiple Choice Question
Eventually the sun will swell to become a red
gian...

Accessibility: Keyboard Navigation
Bloom's Level: 3. Apply
Gradable: automatic
Section: Fundamental Properties of
Life
Topic: Fundamental Properties of
Life

25. Which kingdom contains multicellular organisms that ingest their food?

- Protista
- Animalia
- Plantae
- Fungi


Select 

Accessibility: Keyboard
Navigation
Bloom's Level: 2. Understand
Gradable: automatic
Section: Zoology as a Part of
Biology
Topic: Zoology as a Part of
Biology

Multiple Choice Question
Which kingdom contains multicellular organisms
tha...


26. Which kingdom contains organisms that obtain their food by absorption through
hyphae and never develop from embryos?

- Protista
- Animalia
- Plantae
- Fungi

Select 

Accessibility: Keyboard
Navigation
Bloom's Level: 2. Understand
Gradable: automatic
Section: Zoology as a Part of
Biology
Topic: Zoology as a Part of Biology

Multiple Choice Question
Which kingdom contains organisms that obtain
their...

Select 

27. During the creation court case in Arkansas, Judge Overton defined the essential
properties of science. Which statement is NOT true about science?

- Science is concerned about understanding the natural world
- Science approaches data in a personal or subjective manner
- Conclusions of science are subject to change based on new findings
- Science establishes hypotheses that have the potential to be tested and
disproved

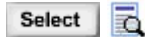
Multiple Choice Question
During the creation court case in Arkansas, Judge ...

Accessibility: Keyboard Navigation
Bloom's Level: 3. Apply

Gradable: automatic
 Section: Principles of Science
 Topic: Principles of Science

28. Much of science is based on an approach known as the _____ method.

- natural
- inductive-deductive
- hypothetical
- hypothetico-deductive



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 Navigation

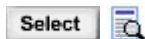
Bloom's Level: 1. Remember
 Gradable: automatic
 Section: Principles of Science
 Topic: Principles of Science

Multiple Choice Question

Much of science is based on an approach known as t...

29. What is a hypothesis?

- A tentative statement, based on information or data, that explains a large number of observations and guides experimentation
- A report of the findings of scientific experiments
- A general statement made to infer a specific conclusion, often in an "if . . . then" format
- Using isolated facts to reach a general idea that may explain a phenomenon



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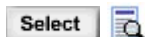
Bloom's Level: 2. Understand
 Gradable: automatic
 Section: Principles of Science
 Topic: Principles of Science

Multiple Choice Question

What is a hypothesis?

30. Which statement about a hypothesis is NOT correct?

- Experiments or observations are conducted to test a hypothesis
- A hypothesis can be tested many times using different methods
- Data that support a hypothesis actually prove it to be true
- If data from experimentation does not lend support to a hypothesis, the hypothesis must be rejected or revised

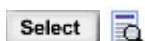


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 Navigation

Bloom's Level: 2. Understand
 Gradable: automatic
 Section: Principles of Science
 Topic: Principles of Science

Multiple Choice Question

Which statement about a hypothesis is NOT correct?



31. Which of the following terms best describes a conceptual scheme in science that is strongly supported, has not yet been found incorrect, and is based on the results of many observations?

- A scientific paradigm
- Descriptive research
- A scientific theory
- Experimental results

Accessibility: Keyboard
Navigation

Bloom's Level: 1. Remember

Gradable: automatic

Section: Principles of Science

Topic: Principles of Science

Multiple Choice Question

Which of the following terms best describes a conc...

32. Powerful theories that guide a broad range of research are

- scientific models.
- scientific revolutions.
- scientific principles.
- scientific paradigms.



Accessibility: Keyboard Navigation

Bloom's Level: 1. Remember

Gradable: automatic

Section: Principles of Science

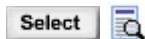
Topic: Principles of Science

Multiple Choice Question

Powerful theories that guide a broad range of rese...

33. When the paradigms of science are shifted or replaced, we consider this a

- scientific discovery.
- scientific revolution.
- change in scientific principles.
- theoretical breakthrough.



Accessibility: Keyboard
Navigation

Bloom's Level: 1. Remember

Gradable: automatic

Section: Principles of Science

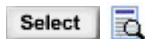
Topic: Principles of Science

Multiple Choice Question

When the paradigms of science are shifted or repla...

34. Attempting to understand proximate or immediate causes in Biology requires this type of approach:

- Evolutionary
- Descriptive
- Theoretical
- Experimental



Multiple Choice Question

Attempting to understand proximate or...

Accessibility: Keyboard Navigation

Bloom's Level: 1. Remember


Gradable: automatic

Section: Principles of Science

Topic: Principles of Science

35. What is the goal of using the experimental method to investigate proximate causes in biology?

- To disprove biological principles or theories
- To test our understanding of a biological system
- To better mankind by inventing something unique
- To prove or disprove the existence of God

Select 

Accessibility: Keyboard
Navigation

Bloom's Level: 2. Understand

Gradable: automatic

Section: Principles of Science


Topic: Principles of Science

Multiple Choice Question

What is the goal of using the experimental method ...

36. To have a frame of reference against which to compare experimental findings, a scientist must

- study two groups: a control group and an experimental group.
- eliminate all expectations that might cause a biased interpretation of the results.
- have other scientists look at the results.
- do nothing; a "frame of reference" is not necessary.

Select 

Accessibility: Keyboard
Navigation

Bloom's Level: 2. Understand

Gradable: automatic

Section: Principles of Science

Topic: Principles of Science

Multiple Choice Question

To have a frame of reference against which to comp...

37. Which statement is NOT correct about experimental design?

- All conditions are held the same except for the condition being tested for in the experimental group
- It is best to use identical subjects (except for the treatment in the experimental group) in order to reduce the uncontrolled factors
- The condition being tested in an experiment is the "control."
- Statistical comparisons are made between groups to determine if any difference is beyond random chance

Select 

Accessibility: Keyboard
Navigation

Bloom's Level: 2. Understand


Gradable: automatic

Section: Principles of Science

Topic: Principles of Science

Multiple Choice Question

Which statement is NOT correct about experimental ...

Select 

38. Which best describes a control group in an experiment?

- A group with the condition that is being tested
- A non-random sample taken through all experimental steps
- A variable that is being deliberately varied in the experiment
- A group that lacks the disturbance experienced by the experimental group

Accessibility: Keyboard
Navigation

Bloom's Level: 3. Apply

Gradable: automatic

Section: Principles of Science

Topic: Principles of Science

Multiple Choice Question

Which best describes a control group in an experim...

39. Some ecologists study complex interactions of animals and plants in forests. Such field research produces slightly different results for different researchers. In contrast, ecology experiments performed indoors with one organism in a terrarium usually produce results that are repeatable. What is the most likely explanation?

- The scientific method is only useful in laboratory settings
- It is not possible to establish a control group outside of a laboratory
- It is easier to hold all but one variable constant in a laboratory
- Fieldwork is evolutionary; laboratory work is experimental

Select



Accessibility: Keyboard
Navigation

Bloom's Level: 3. Apply

Gradable: automatic

Section: Principles of Science

Topic: Principles of Science

Multiple Choice Question

Some ecologists study complex interactions of anim...

40. A person goes around banging a drum each day. You ask him why. He replies, "To drive off the tigers!" You reply "But there aren't any tigers around here." He replies, "See, it works!" From a science viewpoint, this conclusion

- is science because it is predictive of what will happen tomorrow morning.
- is scientifically valid because there is probably a connection between loud noise and absence of tigers.
- is not valid unless there is the potential for tigers to be here, or a test is run with tigers.
- cannot be scientifically treated because it involves human behavior.

Select



Accessibility: Keyboard
Navigation

Bloom's Level: 3. Apply

Gradable: automatic

Section: Principles of Science

Topic: Principles of Science

Multiple Choice Question

A person goes around banging a drum each day.
You ...

41. From Missouri to central Ohio to Pennsylvania, many people believe that they have water moccasins ("cottonmouth snakes") in their farm ponds. Many have "seen

Select



them" although they are not so foolish as to try to capture one alive. Meanwhile, the wildlife officers and the range maps in the herpetology books say that cottonmouths do not breed this far north. What is the most scientific attitude to assume on this issue?

- Observations by both the public and the fish and game officers are subjective so this is not possible to resolve objectively
- A field trip to the pond locations to capture and confirm the identity of the snakes would settle the matter
- Scientific books with range maps are based on field research and, therefore, determine the truth in this case
- Because living organisms are active, scientific theories in biology always change and the older books are therefore wrong

Accessibility: Keyboard
Navigation

Bloom's Level: 3. Apply

Gradable: automatic

Section: Principles of Science

Topic: Principles of Science

Multiple Choice Question

From Missouri to central Ohio to Pennsylvania, man...

42. Which of the following questions addresses an ultimate cause in biology that could be studied using the comparative method?

- How does an animal maintain a constant body temperature in different environmental conditions?
- What are the evolutionary factors that caused some species of birds to acquire complex patterns of seasonal migration between North and South America?
- What are the environmental factors that signal the birds of a particular species to begin their seasonal migration?
- What are the receptors for geomagnetism in Monarch butterflies?

Select



Accessibility: Keyboard
Navigation

Bloom's Level: 2. Understand

Gradable: automatic

Section: Principles of Science

Topic: Principles of Science

Multiple Choice Question

Which of the following questions addresses an ultimate...

43. The theory of evolution, along with all other theories in science

- has been proven in a mathematical sense.
- is mere speculation.
- is testable, tentative, and potentially falsifiable.
- is so powerful that no conceivable evidence could possibly refute it.

Select



Multiple Choice Question

The theory of evolution, along with all other theories...

Accessibility: Keyboard Navigation


Bloom's Level: 1. Remember

Gradable: automatic

Section: Theories of Evolution and

Heredity
Topic: Theories of Evolution and
Heredity

44. The theory that all forms of life descended from a common ancestor through a branching of lineages constitutes Darwin's theory of
- perpetual change.
 - common descent.
 - multiplication of species.
 - natural selection.

Select 

Accessibility: Keyboard Navigation
Bloom's Level: 1. Remember
Gradable: automatic
Section: Theories of Evolution and
Heredity
Topic: Theories of Evolution and
Heredity

Multiple Choice Question

The theory that all forms of life descended from a...


45. The statement that the large anatomical differences that separate the major groups of animals originated through the accumulation of many small incremental changes over long periods of time illustrates Darwin's theory of
- Perpetual change
 - Multiplication of species
 - Gradualism
 - All of the choices are correct

Select 

Accessibility: Keyboard Navigation
Bloom's Level: 1. Remember
Gradable: automatic
Section: Theories of Evolution and
Heredity
Topic: Theories of Evolution and
Heredity

Multiple Choice Question

The statement that the large anatomical difference...

Select 

46. The principle of natural selection is founded in which of the following statements?
- Organisms vary and some variations provide an advantage for survival
 - All organisms tend to overproduce their kind
 - There is a struggle for existence among varying organisms in a population
 - All of these choices together represent the principle of natural selection

Multiple Choice Question

The principle of natural selection is founded in w...

Accessibility: Keyboard Navigation
Bloom's Level: 2. Understand
Gradable: automatic
Section: Theories of Evolution and
Heredity

Topic: Theories of Evolution and Heredity

47. Which of these is a variation of form, function, or behavior that promotes the likelihood of a species' continued existence?
- Evolution
 - Metabolism
 - Adaptation
 - Homeostasis

Select 


Accessibility: Keyboard Navigation
 Bloom's Level: 1. Remember
 Gradable: automatic
 Section: Theories of Evolution and Heredity

Multiple Choice Question

Which of these is a variation of form, function, o...

Topic: Theories of Evolution and Heredity

48. What was the major obstacle that Darwin's theory of natural selection faced when first proposed in 1859?
- It lacked a valid theory of heredity
 - It was unable to explain adaptation
 - It could not explain the origins of new anatomical structures
 - It required unreasonably long periods of time to operate

Select 

Accessibility: Keyboard Navigation
 Bloom's Level: 1. Remember
 Gradable: automatic
 Section: Theories of Evolution and Heredity

Multiple Choice Question

What was the major obstacle that Darwin's theory o...

Topic: Theories of Evolution and Heredity

49. A group within an experimental design that is subjected to all the conditions except the experimental variable is called the _____.

control

Select 

Bloom's Level: 1. Remember
 Gradable: automatic

Fill-in-the-Blank Question

A group within an experimental design that is subj...

Section: Principles of Science
 Topic: Principles of Science

Select 

50. A broad concept in science that is strongly supported by many forms of evidence, is accepted by an overwhelming number of scientists, and has not yet been found to be incorrect is a _____.

theory

Fill-in-the-Blank Question

A broad concept in science that is strongly supported...

Bloom's Level: 1. Remember
 Gradable: automatic

Section: Principles of Science

Topic: Principles of Science

51. The appearance of new characteristics at a given level of biological organization is known as emergence, and these characteristics are known as _____.

Select



Bloom's Level: 1. Remember

Gradable: automatic

Fill-in-the-Blank Question

Section: Fundamental Properties of

The appearance of new characteristics at a given

Life

l...

Topic: Fundamental Properties of Life

52. Physiological sciences ask questions about the _____ causes underlying a biological system whereas the evolutionary sciences ask questions about the ultimate causes that have produced the system.

Select



Bloom's Level: 1. Remember

Gradable: automatic

Fill-in-the-Blank Question

Section: Principles of Science

Physiological sciences ask questions about the ____...

Topic: Principles of Science

53. Religious groups formerly proclaiming their views under the banner "creation-science" have renamed their arguments " _____ " in an attempt to gain credibility.

Select



Bloom's Level: 1. Remember

Gradable: automatic

Fill-in-the-Blank Question

Section: Principles of Science

Religious groups formerly proclaiming their views ...

Topic: Principles of Science

54. Explain Darwinian evolution as an emergent property of the population level of biological organization.

Select



Bloom's Level: 6. Create

Gradable: manual

Essay Question

Section: Theories of Evolution and

Explain Darwinian evolution as an emergent propert...

Heredity

Topic: Theories of Evolution and

Heredity