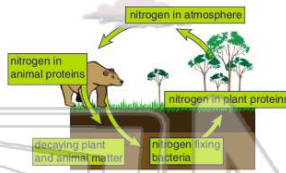




Name _____ Class _____ Date _____

1 Which material cycle relies **least** on the processes of photosynthesis, transpiration, evaporation, respiration, and condensation?

- A oxygen cycle
- B nitrogen cycle
- C water cycle
- D carbon cycle



3 The **analysis** of data gathered during a particular experiment is necessary in order to

- A formulate a hypothesis for that experiment
- B develop a research plan for that experiment
- C design a control for that experiment
- D draw a valid conclusion for that experiment

2 What is the **first step** of a scientific investigation?

- A perform the experiment
- B analyze the experimental data
- C formulate a hypothesis
- D state the problem

4 A student could **best demonstrate** knowledge of how energy flows throughout an ecosystem by

- A drawing a food web using specific organisms living in a pond
- B conducting an experiment that demonstrates the process of photosynthesis
- C labeling a diagram that illustrates ecological succession



PREVIEW

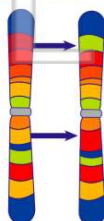
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7
A a carbohydrate
B a simple sugar
C an enzyme
D a complex fat

- B antibodies and chloroplasts
- C hormones and nerve impulses
- D antibiotics and guard cells

9 As a result of sexual reproduction, an organism can **pass a gene mutation** to its offspring if the mutation occurs in

- A a body cell
- B a gamete
- C liver tissue
- D white blood cells



10 When humans first domesticated dogs, there was relatively little diversity in the species. Today, there are many variations such as the German shepherd and the dalmation. This **increase in diversity** is most closely associated with

- A cloning of selected body cells
- B selective breeding
- C mitotic cell division
- D environmental influences on inherited traits

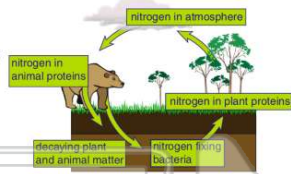




ANSWER KEY

Which material cycle relies **least** on the processes of photosynthesis, transpiration, evaporation, respiration, and condensation?

- A oxygen cycle
- B nitrogen cycle
- C water cycle
- D carbon cycle



(b)

What is the **first step** of a scientific investigation?

- A perform the experiment
- B analyze the experimental data
- C formulate a hypothesis
- D state the problem

(d)

The **analysis** of data gathered during a particular experiment is necessary in order to

- A formulate a hypothesis for that experiment
- B develop a research plan for that experiment
- C design a control for that experiment
- D draw a valid conclusion for that experiment

(d)

A student could **best demonstrate** knowledge of how energy flows throughout an ecosystem by

- A drawing a food web using specific organisms living in a pond
- B conducting an experiment that demonstrates the process of photosynthesis
- C labeling a diagram that illustrates ecological succession
- D making a chart to show the role of bacteria

(a)



PREVIEW

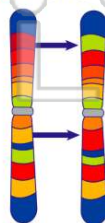
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- B a simple sugar
- C an enzyme
- D a complex fat

- D antibiotics and guard cells

As a result of sexual reproduction, an organism can **pass a gene mutation** to its offspring if the mutation occurs in

- A a body cell
- B a gamete
- C liver tissue
- D white blood cells



(b)

When humans first domesticated dogs, there was relatively little diversity in the species. Today, there are many variations such as the German shepherd and the dalmation. This **increase in diversity** is most closely associated with

- A cloning of selected body cells
- B selective breeding
- C mitotic cell division
- D environmental influences on inherited traits



(b)