

Directions: Answer the following question(s).

1 The key shown can be used to classify different kinds of plants.

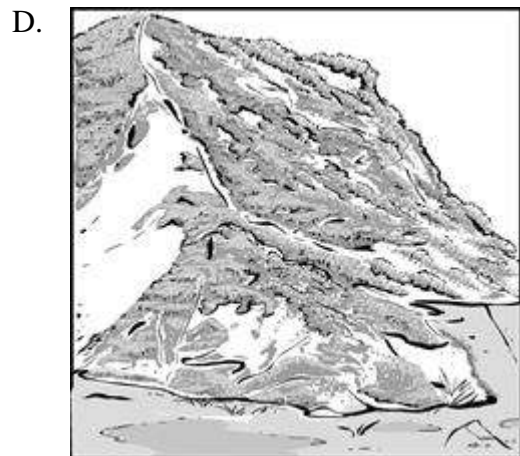
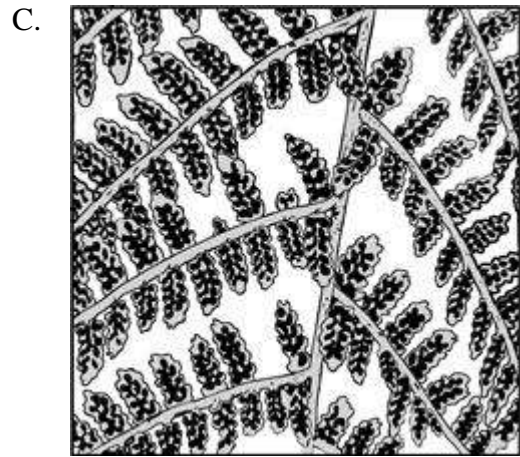
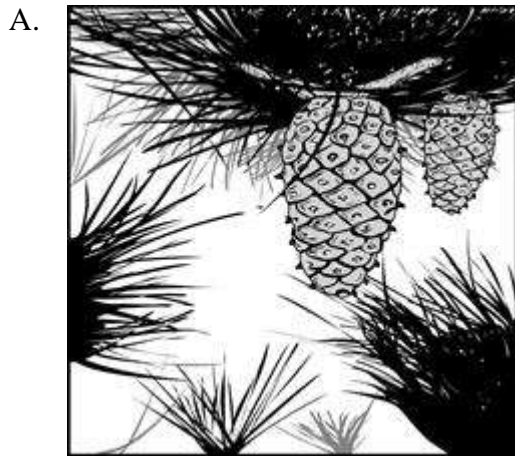
**Plant Classification Key**

1. a. Plant has one or more stems..... go to 2  
 b. Plant lacks any stem-like structures ..... Bryophyte

2. a. Plant has spores ..... Pteridophyte  
 b. Plant lacks spores..... go to 3

3. a. Plant has flowers ..... Angiosperm  
 b. Plant has cones ..... Gymnosperm

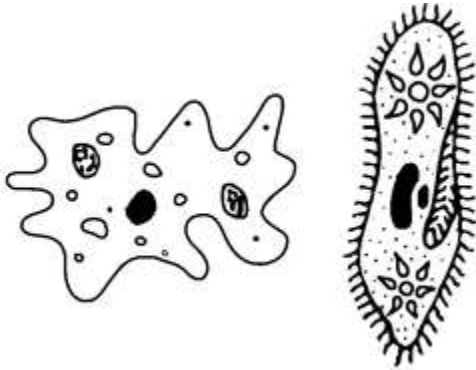
Based on the key above, which of these plants is a gymnosperm?



Master ID: 162869 Revision: 1  
 Correct: A  
 Standards: SCI.7.S7L1

Directions: Answer the following question(s).

- 2 The diagram shows two single-celled organisms.



If the organisms were put in a dichotomous key for classification, what would make the organisms in the diagram different from organisms that fall under the taxonomic group Bacteria?

- A. The organisms in the diagram are autotrophs.
- B. The organisms in the diagram are unicellular.
- C. The organisms in the diagram are mobile and move with flagella.
- D. The organisms in the diagram contain membrane-bound organelles.

Master ID: 2524342 Revision: 1  
Correct: D  
Standards:  
SCI.7.S7L1

- 3 What is the purpose of the taxonomic system?

- A. to require scientists to use standard units of measurement
- B. to organize living organisms in a meaningful way
- C. to determine the biochemistry of different species
- D. to extend scientists' ability to magnify living organisms

Master ID: 2524380 Revision: 1  
Correct: B  
Standards:  
SCI.7.S7L1

Directions: Answer the following question(s).

4 What is the relationship between *Lathyrus palustris* and *Angelica palustris*?

- A. They both belong to the same genus but they are different species.
- B. They both belong to the same species but different genera.
- C. They are both different species and different genera.
- D. They both belong to the same species and the same genus.

Master ID: 2523952 Revision: 1

Correct: B

Standards:  
SCI.7.S7L1

5 There are several million different types of organisms on Earth. Which of the following is the **best** way to organize them?

- A. by the name of the person who discovered them
- B. by features or characteristics they share
- C. chronologically by date of discovery
- D. numerically by their age

Master ID: 2515604 Revision: 1

Correct: B

Standards:  
SCI.7.S7L1

6 Jaylen wants to create a dichotomous key to determine the relationship between tigers and bears. Which **best** describes how Jaylen should start his dichotomous key?

- A. He should start by determining the age of the tiger and bear.
- B. He should start by finding a shared characteristic between the tiger and bear.
- C. He should start by determining the function of the claws of the tiger and bear.
- D. He should start by finding a characteristic that separates the tiger from the bear.

Master ID: 2515455 Revision: 1

Correct: B

Standards:  
SCI.7.S7L1

Directions: Answer the following question(s).

7 Which of the following is the broadest taxonomic category?

- A. phylum
- B. class
- C. genus
- D. domain

Master ID: 2524051 Revision: 1

Correct: D

Standards:  
SCI.7.S7L1

8 **Organisms are classified in three domains:**

1. Archaea
2. Bacteria
3. Eukarya

**Organisms that live in extremely hot or acidic environments belong to**

- A. 1 only.
- B. 2 only.
- C. 1 and 2 only.
- D. 1, 2, and 3.

Master ID: 327198 Revision: 1

Correct: A

Standards:  
SCI.7.S7L1

9 What is the main idea of the cell theory?

- A. Living organisms are composed of cells that arise from preexisting cells.
- B. Organisms that lack certain organelles all reproduce by binary fission.
- C. All cells can contain the same organelles that allow for regeneration.
- D. All cells have nuclei that contain all of the cell's genetic information.

Master ID: 2524287 Revision: 1

Correct: A

Standards:  
SCI.7.S7L2

Directions: Answer the following question(s).

- 10 Which **best** explains the function of the cell membrane?
- A. It stores the genetic material needed to make more cells.
  - B. It converts energy from the Sun into chemical energy.
  - C. It contains digestive enzymes that break down nutrients.
  - D. It separates the inside of the cell from its surroundings.

Master ID: 2515748 Revision: 1  
Correct: D  
Standards:  
SCI.7.S7L2

- 11 **Miranda learned how the human body carries out life functions. Which is the MOST basic level of organization in the human body?**
- A. an organ
  - B. a system
  - C. a tissue
  - D. a cell

Master ID: 160131 Revision: 1  
Correct: D  
Standards:  
SCI.7.S7L2

- 12 **What is the main function of the chloroplasts in plant cells?**
- A. to produce glucose
  - B. to keep the cell rigid
  - C. to make the cell divide
  - D. to allow the plant to reproduce

Master ID: 159456 Revision: 1  
Correct: A  
Standards:  
SCI.7.S7L2

Directions: Answer the following question(s).

**13** Which system supports the body, protects internal organs, and makes blood cells?

- A. muscular system
- B. circulatory system
- C. nervous system
- D. skeletal system

Master ID: 162508 Revision: 1  
Correct: D  
Standards:  
SCI.7.S7L2

**14** What part of the body receives information from the senses?

- A. heart
- B. brain
- C. lungs
- D. stomach

Master ID: 429638 Revision: 1  
Correct: B  
Standards:  
SCI.7.S7L2

**15** The highest level of organization in an organism is

- A. the tissue because tissues join together to form organs within an organism.
- B. the cell because cells join together to compose the tissues within an organism.
- C. the organ system because organ systems work together to maintain homeostasis within an organism.
- D. the organelles because organelles work together to make the organ systems function within an organism.

Master ID: 2524191 Revision: 1  
Correct: C  
Standards:  
SCI.7.S7L2

Directions: Answer the following question(s).

16 What is the function of the lungs?

- A. to circulate the blood
- B. to pass oxygen to the blood
- C. to add white cells to the blood
- D. to pass carbon dioxide to the blood

Master ID: 2524183 Revision: 1  
Correct: B  
Standards:  
SCI.7.S7L2

17 **TEACHER READS:**

Read the question to yourself and select the best answer.

**Most fungi reproduce \_\_\_\_\_.**

- A. asexually
- B. sexually
- C. by budding
- D. All of the above

Master ID: 375796 Revision: 1  
Correct: D  
Standards:  
SCI.7.S7L3

18 **TEACHER READS:**

Read the question to yourself and select the best answer.

**An allele may express itself in an organism's phenotype, or it may be masked by the expression of the other allele for that gene. What are the two categories of alleles, based on whether or not they are expressed in the phenotype?**

- A. homozygous and heterozygous
- B. homozygous and recessive
- C. dominant and heterozygous
- D. dominant and recessive

Master ID: 375473 Revision: 1  
Correct: D  
Standards:  
SCI.7.S7L3

Directions: Answer the following question(s).

- 19 A student collects a sample of water from a pond near her home. She examines a drop of the water under a microscope and sees four very differently shaped single-celled organisms. Which of the following can she reasonably conclude is the reason the organisms look so different?
- A. The organisms had the same parent, but the parent passed on different parts of its genetic code to each of its offspring.
  - B. The organisms looked the same at first, but they have changed completely over time because of their environment.
  - C. Each organism had a different parent that passed on a unique set of genetic instructions.
  - D. Each organism has the same genes that were passed down from different parents.

Master ID: 2524489 Revision: 1  
Correct: C  
Standards:  
SCI.7.S7L3

- 20 Yeast is a unicellular fungus that reproduces asexually. Which of the following processes would yeast cells **most likely** undergo to produce offspring?
- A. budding
  - B. fertilization
  - C. meiotic division
  - D. production of egg cells

Master ID: 2515361 Revision: 1  
Correct: A  
Standards:  
SCI.7.S7L3

- 21 **Which is a characteristic of asexual reproduction?**
- A. Half of the offspring have learned traits similar to the parents.
  - B. All of the learned traits pass from parents to offspring.
  - C. All of the inherited traits are the same as the parents.
  - D. Half of the inherited traits come from two parents.

Master ID: 158991 Revision: 1  
Correct: C  
Standards:  
SCI.7.S7L3



Directions: Answer the following question(s).

22 How do traits of animals such as ear shape, nose shape, and hair color MOST often get passed to offspring?

- A. sexual reproduction
- B. asexual reproduction
- C. adaptation
- D. instinct

Master ID: 158989 Revision: 1  
Correct: A  
Standards:  
SCI.7.S7L3

23 When southern Georgia experienced abnormally cold weather, many of the peanut plants were killed. Which of the following **best** explains why the peanut plants were harmed by the cold weather?

- A. The farmers had never used hot water to water their peanut plants.
- B. The farmers had never used cold water to water their peanut plants.
- C. The peanut plants could not adapt to this environmental change.
- D. The peanut plants could quickly adapt to this environmental change.

Master ID: 2515462 Revision: 1  
Correct: C  
Standards:  
SCI.7.S7L4

24 **TEACHER READS:**

Read the question to yourself and select the best answer.

**Many scientists hold to the theory that the dinosaurs were forced to extinction by a major asteroid collision. Although the asteroid itself probably did not kill all of the dinosaurs directly, the asteroid impact MOST likely led directly to \_\_\_\_\_.**

- A. a volcanic eruption
- B. continental drift
- C. global climate change
- D. the introduction of new species

Master ID: 391072 Revision: 1  
Correct: C  
Standards:  
SCI.7.S7L4

Directions: Answer the following question(s).

25 The energy that gets to the top-level consumers originally comes from

- A. the Sun.
- B. the water.
- C. the producers.
- D. the decomposers.

Master ID: 2523919 Revision: 1

Correct: A

Standards:  
SCI.7.S7L4

26 What is true of mutualistic relationships among organisms?

- A. The organisms ignore each other.
- B. The organisms cooperate with each other.
- C. The organisms prey on each other.
- D. The organisms compete with each other.

Master ID: 429692 Revision: 1

Correct: B

Standards:  
SCI.7.S7L4

27 The types of herbivorous mammals present in a given terrestrial community depend **most** directly on the

- A. level of nitrogen in the atmosphere.
- B. number of decomposers present.
- C. oxygen in ponds and streams.
- D. types of plants present.

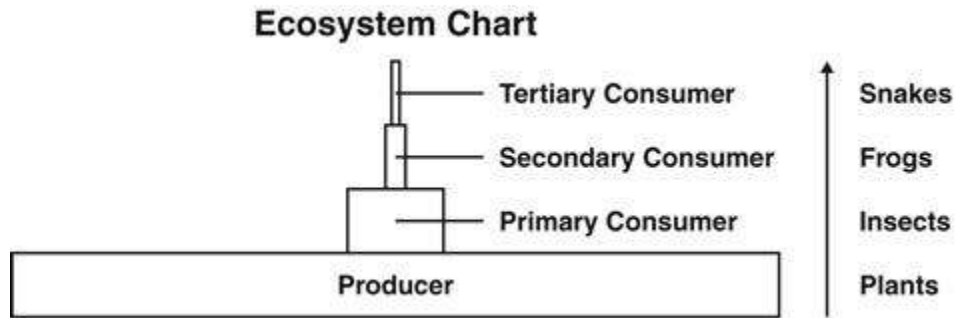
Master ID: 2515424 Revision: 1

Correct: D

Standards:  
SCI.7.S7L4

Directions: Answer the following question(s).

- 28 Jim found a chart that showed information on ecosystems. He noticed that the chart was subdivided into producers, primary consumers, secondary consumers, and tertiary consumers.



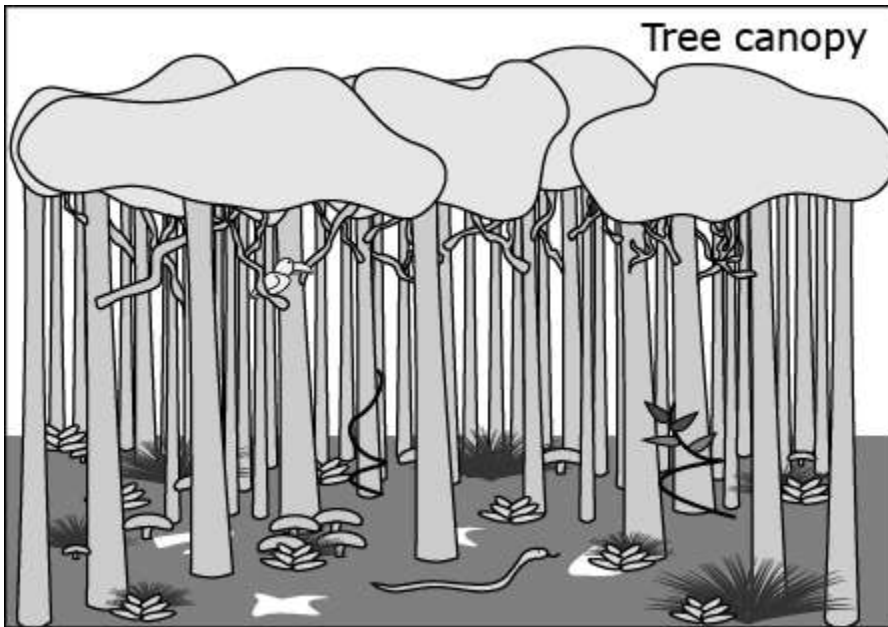
Which statement **BEST** describes the energy relationship found within this ecosystem chart?

- A. Producers generate less energy than consumers in the ecosystem.
- B. Plants produce the most energy for feeding organisms in the ecosystem.
- C. Tertiary consumers such as snakes consume most of the energy available in the ecosystem.
- D. The insect population has less energy available to it than the frog population in the ecosystem.

Master ID: 162050 Revision: 1  
Correct: B  
Standards:  
SCI.7.S7L4

Directions: Answer the following question(s).

- 29 The picture shows a tropical rain forest with a large tree canopy that lets through very little sunlight.



Which of the following is a form of life that survives well in this environment?

- A. fungi that enjoy the dark forest floor and help to get rid of animal and plant waste
- B. mammals that need the dark, moist soil of the forest floor in which to lay their eggs
- C. plants that use moonlight to make food and energy for growth
- D. insects that require no water because rainfall is blocked by the canopy

Master ID: 2524425 Revision: 1  
Correct: A  
Standards:  
SCI.7.S7L4

- 30 **TEACHER READS:**

Read the question to yourself and select the best answer.

**In a food web, plants are eaten primarily by the \_\_\_\_\_.**

- A. producers
- B. primary consumers
- C. secondary consumers
- D. tertiary consumers

Master ID: 387839 Revision: 1  
Correct: B  
Standards:  
SCI.7.S7L4

Directions: Answer the following question(s).

31 A certain snake species in an ecosystem eats small rodents. If a bird species is introduced into the ecosystem that also eats small rodents, which of these will **MOST** likely increase?

- A. parasitism
- B. migration
- C. mutualism
- D. competition

Master ID: 160303 Revision: 1  
Correct: D  
Standards:  
SCI.7.S7L4

32 **TEACHER READS:**

Read the question to yourself and select the best answer.

**As matter flows in food chains and webs from producers to consumers, the total *amount* of matter**

- A. stays the same.
- B. increases.
- C. decreases.
- D. increases then decreases.

Master ID: 399168 Revision: 1  
Correct: A  
Standards:  
SCI.7.S7L4

33 The cones of some pine trees that are native to Texas will only open under extremely high temperatures. When they open, they release female reproductive cells that will become seeds after being fertilized. Which of the following is **most likely** to occur after a controlled burn of these pine trees?

- A. The population of these pines will not be affected.
- B. The population of these pines will be forever destroyed.
- C. The population of these pines will decrease, then increase.
- D. The population of these pines will increase, then decrease.

Master ID: 2515360 Revision: 1  
Correct: C  
Standards:  
SCI.7.S7L4

Directions: Answer the following question(s).

34 If a lake is polluted, which organisms would MOST likely accumulate the highest concentration of contaminants?

- A. bass
- B. minnows
- C. aquatic plants
- D. fish-eating birds

Master ID: 161810 Revision: 1  
Correct: D  
Standards:  
SCI.7.S7L4

35 Large blooms of algae on the surface of a lake keep which abiotic factor from reaching the bottom?

- A. water
- B. salt
- C. light
- D. oxygen

Master ID: 159464 Revision: 1  
Correct: C  
Standards:  
SCI.7.S7L4

36 **TEACHER READS:**

Read the question to yourself and select the best answer.

**In a food web, sunlight is transferred to plants as energy in a process called \_\_\_\_\_.**

- A. cellular respiration
- B. production
- C. photosynthesis
- D. matter transfer

Master ID: 388587 Revision: 1  
Correct: C  
Standards:  
SCI.7.S7L4

Directions: Answer the following question(s).

**37** Oak tree decline is linked to the effects of pathogenic fungi, insect defoliation, soil chemical stress, and microorganism activity. Which factor is an abiotic condition that is affecting oak tree decline?

- A. pathogenic fungi
- B. insect defoliation
- C. soil chemical stress
- D. microorganism activity

Master ID: 161942 Revision: 1  
Correct: C  
Standards:  
SCI.7.S7L4

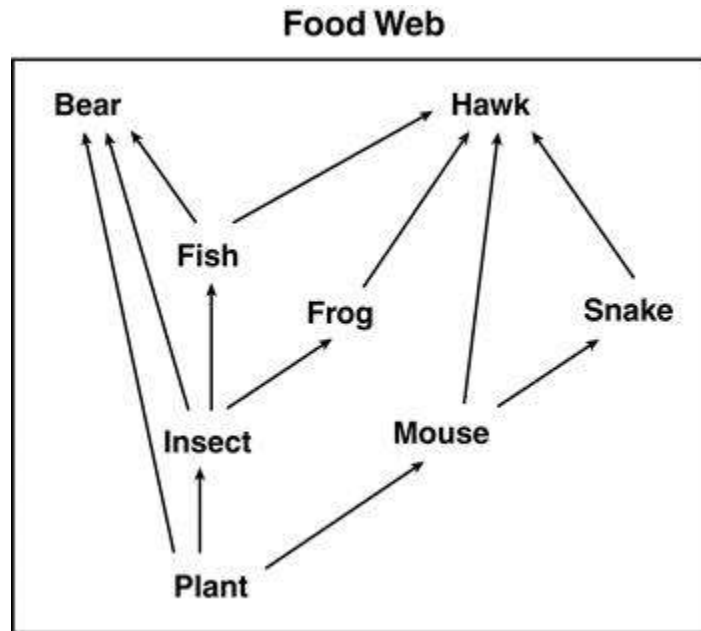
**38** What is the primary source of energy for organisms from a beach ecosystem?

- A. sand
- B. oxygen
- C. the Sun
- D. the ocean

Master ID: 158291 Revision: 1  
Correct: C  
Standards:  
SCI.7.S7L4

Directions: Answer the following question(s).

39 The diagram shows a partial food web.



Which of these is a secondary consumer in this food web?

- A. Bear
- B. Hawk
- C. Insect
- D. Mouse

Master ID: 162631 Revision: 1  
 Correct: B  
 Standards:  
 SCI.7.S7L4

40 A lake that an alligator lived in was filled in to build a housing development. Which **best** describes what the alligator would have to do to increase its chances of survival?

- A. The alligator would have to change to adapt to living without water.
- B. The alligator would have to wait until a new lake was built in its place.
- C. The alligator would have to move to a new lake with different environmental conditions.
- D. The alligator would have to move to a new lake with similar environmental conditions.

Master ID: 2523916 Revision: 1  
 Correct: D  
 Standards:  
 SCI.7.S7L4



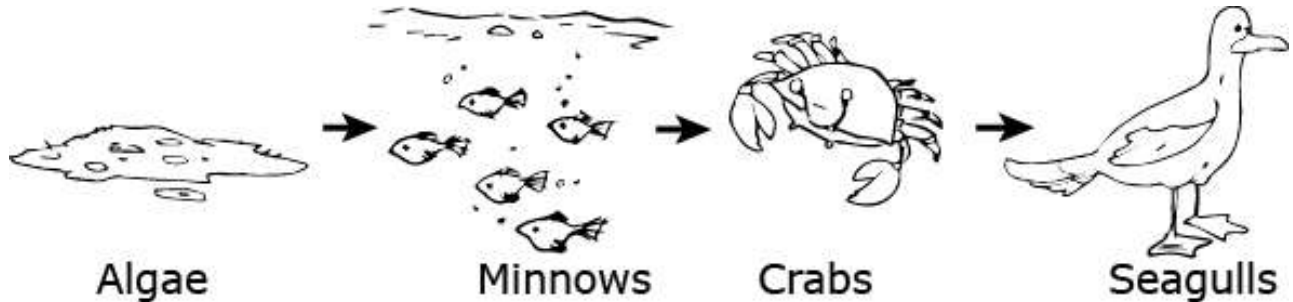
Directions: Answer the following question(s).

41 Many flowers attract bees. Bees consume nectar from the flower for energy. How does this interaction benefit the plant?

- A. by increasing photosynthesis
- B. by pollinating it
- C. by limiting growth
- D. by reducing competition

Master ID: 429641 Revision: 1  
Correct: B  
Standards:  
SCI.7.S7L4

42 The diagram shows a food chain found in an ocean ecosystem.



Which part of the food chain receives energy last?

- A. algae
- B. crabs
- C. minnows
- D. seagulls

Master ID: 2515799 Revision: 1  
Correct: D  
Standards:  
SCI.7.S7L4

Directions: Answer the following question(s).

43 **Clownfish take shelter in the tentacles of sea anemones and keep sea anemones clean. Which type of relationship does this represent?**

- A. parasitism
- B. commensalism
- C. mutualism
- D. neutralism

Master ID: 159453 Revision: 1  
Correct: C  
Standards:  
SCI.7.S7L4

44 **What is the MOST likely effect of a drought on a population of frogs that live in a shallow swamp?**

- A. only younger frogs will survive
- B. the number of predators will increase
- C. decrease in frog population as water evaporates
- D. increase in frog population as more land is exposed

Master ID: 160667 Revision: 1  
Correct: C  
Standards:  
SCI.7.S7L4

45 Which of the following explains one of the ways plants and animals depend on each other?

- A. Animals make minerals, which plants take in through their roots and pass up to their stems.
- B. Animals release water vapor when they breathe, which plants take in through their leaves.
- C. Animals make their own food, which plants take in through their roots and pass to their leaves.
- D. Animals release carbon dioxide when they breathe, which plants take in to help make food.

Master ID: 2524485 Revision: 1  
Correct: D  
Standards:  
SCI.7.S7L4

Directions: Answer the following question(s).

46 Decomposers help in

- A. spreading decay in the environment.
- B. recycling nutrients back into the environment.
- C. controlling large populations in the environment.
- D. supplying energy directly to consumers in the environment.

Master ID: 2515480 Revision: 1

Correct: B

Standards:  
SCI.7.S7L4

47 What are the two primary factors that determine the type of biome that will develop?

- A. salinity and pH
- B. plants and animals
- C. erosion and rainfall
- D. temperature and precipitation

Master ID: 2523857 Revision: 1

Correct: D

Standards:  
SCI.7.S7L4

48 **TEACHER READS:**

Read the question to yourself and select the best answer.

**According to Darwin's *On the Origin of Species by Means of Natural Selection*, differences in characteristics within species occur \_\_\_\_\_.**

- A. randomly
- B. in response to environmental conditions
- C. only over very long periods of time
- D. at every new generation

Master ID: 391193 Revision: 1

Correct: A

Standards:  
SCI.7.S7L5

Directions: Answer the following question(s).

49 **TEACHER READS:**

Read the question to yourself and select the best answer.

**The placement of preserved organisms in different layers of rock formation that gives evidence to support the theory of evolution is known as \_\_\_\_\_.**

- A. genealogy records
- B. the fossil record
- C. comparative anatomy
- D. molecular biology

Master ID: 394132 Revision: 1  
Correct: B  
Standards:  
SCI.7.S7L5

50 Which of the following is NOT a reason why scientists classify organisms?

- A. so that scientists all over the world can talk about organisms with a common language
- B. so that scientists can organize all the different types of organisms to study them better
- C. so that scientists can more easily identify new organisms that are discovered
- D. so that scientists can tell the order in which the organisms were discovered

Master ID: 2515601 Revision: 1  
Correct: D  
Standards:  
SCI.7.S7L1

51 **TEACHER READS:**

Read the question to yourself and select the best answer.

**Multicellular organisms are made up of structures with increasing levels of complexity. Which of the following have the MOST complexity in their structure?**

- A. organ systems
- B. tissues
- C. cells
- D. organs

Master ID: 399096 Revision: 1  
Correct: A  
Standards:  
SCI.7.S7L2

Directions: Answer the following question(s).

52 Which process occurs in the mitochondria and releases energy in both plant and animal cells?

- A. division
- B. respiration
- C. reproduction
- D. specialization

Master ID: 2515746 Revision: 1  
Correct: B  
Standards:  
SCI.7.S7L2

53 The nose, mouth, and diaphragm are parts of which body system?

- A. digestive
- B. muscular
- C. circulatory
- D. respiratory

Master ID: 159110 Revision: 1  
Correct: D  
Standards:  
SCI.7.S7L2

54 Jonny climbed an apple tree. How are Jonny and the apple tree similar to each other?

- A. Both are made of cells.
- B. Both take in carbon dioxide.
- C. Both get nutrients directly from soil.
- D. Both get energy from other organisms.

Master ID: 158489 Revision: 1  
Correct: A  
Standards:  
SCI.7.S7L2

Directions: Answer the following question(s).

- 55 Two sisters are born from a father who has blue eyes and a mother who has brown eyes. One sister has blue eyes, and the other has brown eyes. Which of the following explains this difference in eye color?
- A. Each sister inherited a different combination of alleles from their parents that determined their eye color.
  - B. One of the sisters inherited all of her alleles from the mother, and the other sister inherited only from the father.
  - C. The environment caused the alleles to be expressed in different ways, making the sisters' eye colors different.
  - D. The sister with the blue eyes had only one allele for determining eye color, and the sister with brown eyes had two.

Master ID: 2524528 Revision: 1  
Correct: A  
Standards:  
SCI.7.S7L3

56 **TEACHER READS:**

Read the question to yourself and select the best answer.

**A diploid organism is formed in the process of \_\_\_\_\_ during sexual reproduction.**

- A. nondisjunction
- B. budding
- C. fertilization
- D. meiosis

Master ID: 368256 Revision: 1  
Correct: C  
Standards:  
SCI.7.S7L3

- 57 **A baby kit fox grows to become an adult with a mass of over 3.5 kg. What factor will have the greatest influence on this kit fox's survival?**
- A. the size of the fox's ears
  - B. the conditions of the fox's habitat
  - C. the average number of fox offspring
  - D. the social behaviors within the fox population

Master ID: 162871 Revision: 1  
Correct: B  
Standards:  
SCI.7.S7L4

Directions: Answer the following question(s).

58 **TEACHER READS:**

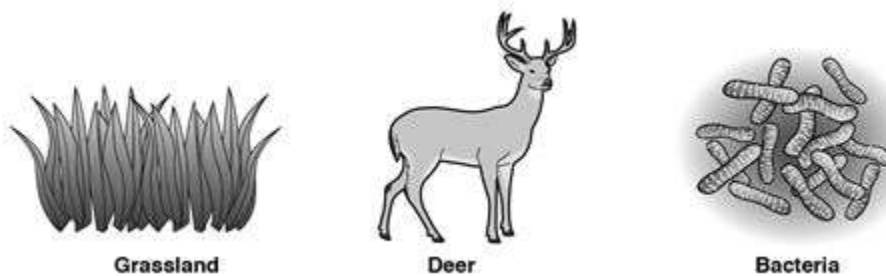
Read the question to yourself and select the best answer.

**Rattlesnakes feed on small birds, rodents, and even small rabbits. The relationship between rattlesnakes and rodents is considered a \_\_\_\_\_.**

- A. parasite–host relationship
- B. consumer–decomposer relationship
- C. predator–prey relationship
- D. consumer–producer relationship

Master ID: 397432 Revision: 1  
Correct: C  
Standards:  
SCI.7.S7L4

59 **A simple food chain is shown.**



**According to the food chain, which would represent the flow of energy through this food chain?**

- A. Producer → Decomposer → Consumer
- B. Consumer → Producer → Decomposer
- C. Decomposer → Producer → Consumer
- D. Producer → Consumer → Decomposer

Master ID: 159923 Revision: 1  
Correct: D  
Standards:  
SCI.7.S7L4

Directions: Answer the following question(s).

60 A large number of species on Earth became extinct during a short time period about 65 million years ago. Based on this pattern of extinction, which is the MOST likely cause?

- A. gradual climate change
- B. continued climate stability
- C. sudden global climate change
- D. gradual ecosystem succession

Master ID: 160832 Revision: 1  
Correct: C  
Standards:  
SCI.7.S7L4

61 A hurricane significantly damages the sand dunes on the beaches of coastal Georgia. Which living organisms' survival would be **most** affected by this damage?

- A. the fish living near the coast
- B. the birds living near the coast
- C. the shells living on the beaches
- D. the plants living on the beaches

Master ID: 2515472 Revision: 1  
Correct: D  
Standards:  
SCI.7.S7L4

62 Different species of herbivorous rodents lived in the same ecosystem. Which factor MOST likely increased, causing more competition for resources among the rodents?

- A. the fertility of the soil
- B. the population of producers in the area
- C. the amount of food scraps left by predators
- D. the rate at which primary consumers moved into the area

Master ID: 162172 Revision: 1  
Correct: D  
Standards:  
SCI.7.S7L4



Directions: Answer the following question(s).

- 63 The picture shows a coral reef. The deep-water reef in Australia is made up of tiny animals with hard skeletons living close to one another.



Source: Toby Hudson CC BY SA 3.0

Which kind of organisms would survive well in this environment?

- A. consumers that require plants for energy
- B. animals that can wade in the water and catch fish
- C. plants that require direct sunlight to grow
- D. colorful fish that can blend into and hide in the coral

Master ID: 2515512 Revision: 1  
Correct: D  
Standards:  
SCI.7.S7L4

- 64 **Field mice are the primary food source for horned owls in an area. Due to a drought, many field mice left the area. Which result would this drought MOST likely have on the horned owls?**

- A. The horned owl population will consume more field mice.
- B. Horned owls will follow the field mice to a different area.
- C. The horned owl population will increase in the area.
- D. Horned owls will change to a plant-based diet.

Master ID: 159704 Revision: 1  
Correct: B  
Standards:  
SCI.7.S7L4

Directions: Answer the following question(s).

- 65 The bloody-heart lichen is composed of a fungus and an alga. The alga makes food through photosynthesis and the fungus encloses the alga, providing support. What kind of relationship is this?
- A. competitive
  - B. commensal
  - C. mutualistic
  - D. parasitic

Master ID: 2524413 Revision: 1  
Correct: C  
Standards:  
SCI.7.S7L4

66 **TEACHER READS:**

Read the question to yourself and select the best answer.

**Organisms are often classified by the relationships they have with other organisms in an ecosystem. A relationship in which one organism benefits and the other is unharmed, such as the relationship that exists between whales and barnacles, is known as \_\_\_\_\_.**

- A. mutualism
- B. commensalism
- C. parasitism
- D. mechanism

Master ID: 397435 Revision: 1  
Correct: B  
Standards:  
SCI.7.S7L4

- 67 **A type of bird in Africa eats blood-sucking insects off large mammals. Which word BEST describes the relationship between the bird and the mammals?**
- A. mutualism
  - B. parasitism
  - C. neutralism
  - D. commensalism

Master ID: 159448 Revision: 1  
Correct: A  
Standards:  
SCI.7.S7L4

Directions: Answer the following question(s).

68 The air potato plant is a climbing vine that has large, heart-shaped leaves. In less than two years, it can grow large enough to completely cover a pine tree, killing the tree. The air potato plant and the pine tree are competing for a number of resources. What is the **most likely** reason a pine tree covered with air potato vines would die?

- A. lack of air
- B. lack of water
- C. lack of sunlight
- D. lack of soil nutrients

Master ID: 2524091 Revision: 1  
Correct: C  
Standards:  
SCI.7.S7L4

69 Tigers, sponges, and whales are members of the kingdom Animalia. These organisms are very different but are also similar in some ways. Which of the following is a characteristic used to classify these organisms as animals?

- A. They feed on decomposing organic matter.
- B. They give birth to live young.
- C. They eat other living organisms.
- D. They have cell walls.

Master ID: 2515586 Revision: 1  
Correct: C  
Standards:  
SCI.7.S7L1

70 The biceps are the muscles responsible for flexing the forearm. The biceps **best** belong to which level of organization?

- A. cell
- B. tissue
- C. organ
- D. organism

Master ID: 2515782 Revision: 1  
Correct: C  
Standards:  
SCI.7.S7L2

Directions: Answer the following question(s).

- 71 What is the function of the central nervous system?
- A. to transmit impulses from sense organs to the brain
  - B. to transmit impulses to the muscles
  - C. to maintain balance
  - D. to relay messages and process information

Master ID: 2523832 Revision: 1  
Correct: D  
Standards:  
SCI.7.S7L2

- 72 Which of the following **best** describes the role of the kidney in homeostasis?
- A. storing of urine
  - B. producing urine at a constant rate
  - C. adding proteins to the blood
  - D. maintaining the water content of the blood

Master ID: 2523947 Revision: 1  
Correct: D  
Standards:  
SCI.7.S7L2

- 73 What is the passing of genetic information from one generation to the next?
- A. genes
  - B. heredity
  - C. cloning RNA
  - D. nuclei

Master ID: 2524288 Revision: 1  
Correct: B  
Standards:  
SCI.7.S7L3

Directions: Answer the following question(s).

**74 TEACHER READS:**

Read the question to yourself and select the best answer.

**A single fertilized egg multiplies in number to form an entire organism, composed of trillions of cells, through the process of**

- A. cell division.
- B. specialization.
- C. cell differentiation.
- D. meiosis.

Master ID: 399127 Revision: 1  
Correct: A  
Standards:  
SCI.7.S7L3

**75 Some plants rely on hummingbirds for pollination. If a deadly disease infected the hummingbird population, what would MOST likely happen to the plants?**

- A. They would die within hours.
- B. They would become endangered.
- C. They would need to migrate.
- D. They would grow at a slower rate.

Master ID: 158998 Revision: 1  
Correct: B  
Standards:  
SCI.7.S7L4

**76 Certain types of bacteria play an important role in an ecosystem. Which statement BEST describes the function of bacteria?**

- A. Bacteria produce light energy used by producers in an ecosystem.
- B. Bacteria decrease the amount of energy needed for the ecosystem.
- C. Bacteria break down organic debris to recycle nutrients in the ecosystem.
- D. Bacteria convert carbon dioxide into oxygen for photosynthetic organisms in the ecosystem.

Master ID: 161841 Revision: 1  
Correct: C  
Standards:  
SCI.7.S7L4

Directions: Answer the following question(s).

**77** Elephants on the African savanna eat shrubs and small trees. This behavior clears land and enables grass to grow. Grazers such as gazelles eat the grass. Lions prey on the gazelles. Which two organisms in this scenario are in the MOST cooperative relationship?

- A. the elephants and the shrubs
- B. the shrubs and the lions
- C. the elephants and the gazelles
- D. the gazelles and the lions

Master ID: 429690 Revision: 1  
Correct: C  
Standards:  
SCI.7.S7L4

**78** TEACHER READS:

Read the question to yourself and select the best answer.

**Charles Darwin's reasoning that the mechanism behind evolution was natural selection was based on \_\_\_\_\_.**

- A. the fact that the variation seen within a species occurs in all types of organisms
- B. the fact that processes seen in nature are comparable to those that cause change through artificial selection
- C. the fact that fossils and geographical distribution of living species provide evidence of the process
- D. All of the above

Master ID: 375288 Revision: 1  
Correct: D  
Standards:  
SCI.7.S7L5

**79** TEACHER READS:

Read the question to yourself and select the best answer.

**The basis for the modern theory of evolution was proposed by \_\_\_\_\_.**

- A. Francis Crick
- B. Robert Hooke
- C. Carl Linnaeus
- D. Charles Darwin

Master ID: 378505 Revision: 1  
Correct: D  
Standards:  
SCI.7.S7L5

Directions: Answer the following question(s).

- 80 A female giraffe with a short neck has to really stretch to reach the leaves of taller trees. According to the theory of natural selection, which of the following is **most likely** to happen?
- A. The giraffe stretches her neck to reach the taller trees, helping her produce offspring that all have longer necks.
  - B. The giraffe has offspring with varying neck sizes and those with longer necks survive to produce more young of their own.
  - C. The giraffe has offspring that are all born with short necks, and the trees around them will adapt by growing shorter.
  - D. The giraffe cannot survive without reaching the leaves from taller trees and will not survive to produce offspring.

Master ID: 2524003 Revision: 1  
Correct: B  
Standards:  
SCI.7.S7L5