

Name _____

Date _____

3rd nine weeks study guide

1.

Which of the following is an effect of drought that is likely to lead to the extinction of a species of grazing animals?

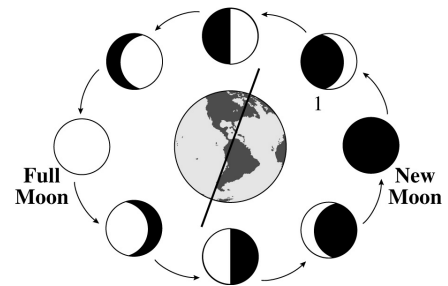
- A. Decreased plant growth
- B. Increased volcanic activity
- C. Reduced prey populations
- D. Increased predator populations

2.

A person is snorkeling at a coral reef. He notices that the small fish swim away and hide in the coral when he comes near. Which of the following is the MOST likely explanation for the reaction of the fish to the snorkeler?

- A. The small fish are very curious.
- B. The small fish are afraid of all humans.
- C. The small fish fear larger organisms in the water.
- D. The small fish only come out at certain times of the day.

3.



What is the phase of the moon indicated by the 1 in the diagram shown above?

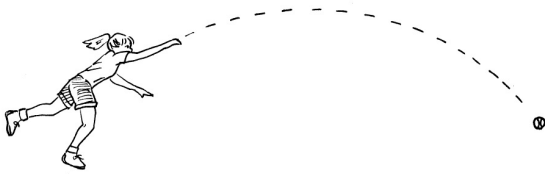
- A. Waning crescent phase
- B. Waning gibbous phase
- C. Waxing crescent phase
- D. Waxing gibbous phase

4.

To which field of study did Newton's research involving laws of motion and gravitation contribute the MOST scientific understanding?

- A. Biology
- B. Chemistry
- C. Medicine
- D. Physics

5.



The baseball shown above MOST likely travels on a curved path because —

- A. the shape of the ball exerts an unbalanced force on the ball
- B. the girl exerted a force with a curved direction
- C. air pressure exerts an unbalanced force on the ball
- D. gravity exerts an unbalanced force on the ball

6.

A student slides a book across a desk by giving it an initial push. Which of the following is the MOST important reason that the book eventually comes to a stop instead of continuing to slide?

- A. The initial force was too weak to keep the book in motion.
- B. The mass of the book was not enough to keep the book in motion.
- C. The force that occurs when the book rubs against the desk stops the book.
- D. The magnetic force from the Earth stops the book.

7.

In the diagrams below, two forces are exerted on an object. The forces are represented by arrows. The length of the arrow indicates the magnitude of the force. In which of the diagrams will the motion of the object remain unchanged?

- A.
- B.
- C.
- D.

8.

During the hot, dry African summer months, African clawed frogs can dig one-foot deep burrows into the mud. The frogs leave a small hole open to supply air. They can stay in these burrows for up to 10 months. These frogs MOST likely live in these burrows in order to —

- A. stay warm
- B. find mates
- C. capture food
- D. conserve water

9.

Some organisms produce more red blood cells than normal as they travel to higher elevations where there is less air pressure. What is the MOST likely advantage of this process?

- A. A decrease in loss of heat
- B. An increase in the breathing rate
- C. An increase in the absorption of oxygen
- D. A decrease in internal body temperature

10.

Rabbits in most areas have a brown coat. The arctic hare has a bright white coat in winter. How does the arctic hare's white color help it survive?

- A. It makes the hare warmer during the summer.
- B. It helps the hare blend in to its background.
- C. It makes the hare appear larger to predators.
- D. It helps the hare stay warm during the winter.

11.

Which of the following statements BEST explains how the oceans moderate the range of daily temperature fluctuations on Earth?

- A. Ocean currents carry water from warmer areas to colder areas.
- B. Ocean water evaporates during the day and condenses at night.
- C. Ocean water expands when it is heated and contracts when it cools.
- D. Ocean water absorbs heat during the day and releases heat at night.

12.

Ocean currents move warm and cold water throughout the oceans, affecting weather systems and climates. Where do warm ocean currents originate?

- A. Near the poles
- B. Near the equator
- C. Near continents
- D. Near the middle of oceans

13.

During a landslide, many tons of rock slide down a hill in a very short time. A landslide would MOST LIKELY force animals living in the area to —

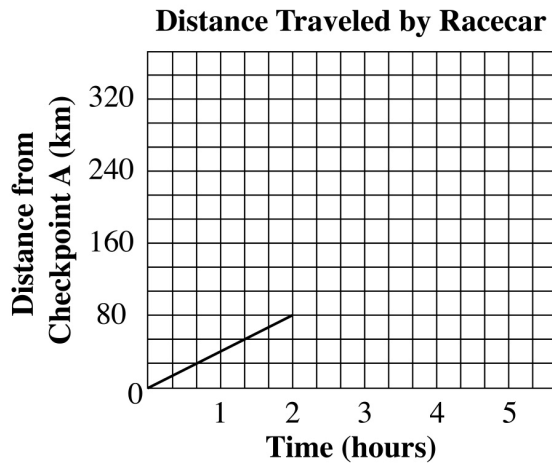
- A. move to a new area
- B. develop new adaptations
- C. uncover all the buried plants
- D. develop different types of diets

14.

Which of the following trash items often found in landfills is MOST LIKELY to cause dangerous chemicals to soak into the soil and water, and should be not be disposed of in landfills?

- A. Rotting food
- B. Glass soda bottle
- C. Aluminum soup can
- D. Rechargeable batteries

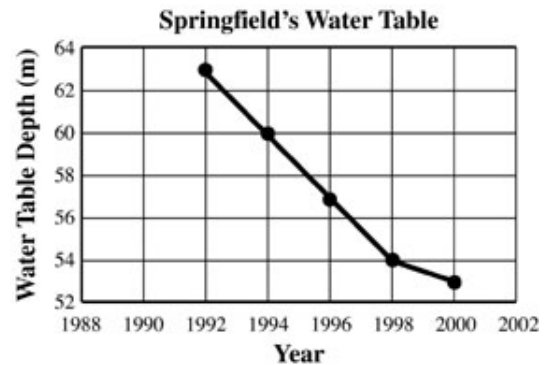
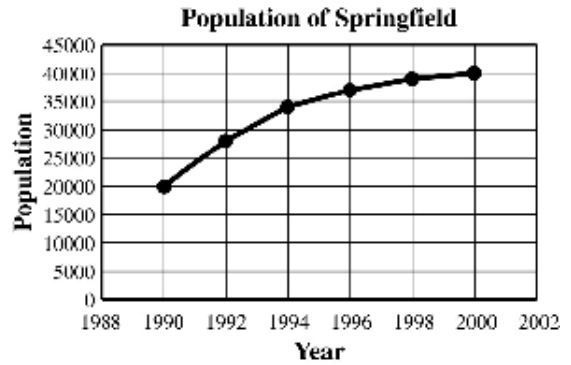
15.



A racecar leaves Checkpoint A and drives north for 2 hours. The car's progress for the first two hours is shown in the graph above. After 2 hours, the racecar doubles its speed and drives north for 2 more hours before stopping. When the racecar stops, how far is it from its original location at Checkpoint A?

- A. 40 km
- B. 80 km
- C. 160 km
- D. 240 km

16.



A scientist studied changes in the population and water table of Springfield over 10 years. Based on the data shown in the graphs, the scientist should recommend that —

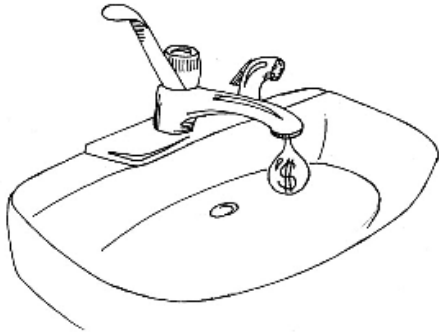
- A. residents prepare for flooding in the spring and fall
- B. water use be limited to support more growth
- C. shallow wells be deepened enough to continue to collect water
- D. emergency water conservation measures be taken

17.

Some desert animals are most active at dusk and dawn. This adaptation is MOST helpful for —

- A. preying on plant species
- B. finding new water sources
- C. avoiding high temperatures
- D. hiding from hungry animals

18.



Turn it off! Don't let your wallet run dry.

This advertisement is MOST likely trying to convince people —

- A. to buy a new kitchen sink
- B. to drink less expensive water
- C. that wasting water costs money
- D. that the water supply is running out

19.

A student responds to a stimulus by widening her eyes, increasing her heart rate, and becoming very alert. This response was MOST likely caused by someone in the room —

- A. turning up the thermostat
- B. making a sudden loud noise
- C. turning on the room's lights
- D. switching on an air conditioner

20.

Euglena is a microscopic organism that lives in freshwater ponds. It has chloroplasts, moves by a flagellum, and has an eyespot that is sensitive to light. *Euglena* would MOST LIKELY respond to sunlight by swimming —

- A. around the roots of a lily pad
- B. beneath an underwater log
- C. to the bottom of the pond
- D. toward the pond surface

21.

During the summer months, some fish in a lake may stay as deep as 20 feet below the surface. Staying this deep underwater is MOST likely to help the fish —

- A. maintain a cool body temperature
- B. get as much oxygen as possible
- C. be close to the plants they eat
- D. avoid the larger predator fish

22.

Planetary Data

Planet	Diameter Compared to Earth
Mercury	0.38
Venus	0.95
Earth	1
Mars	0.53
Jupiter	11.19
Saturn	9.41
Uranus	3.98
Neptune	39.6
Pluto	0.27

Students are working on a scale model of the solar system. They are planning to use a table tennis ball to show Earth. Which of the following would be the BEST choice to model Jupiter?

- A. Softball
- B. Golf ball
- C. Baseball
- D. Soccer ball

23.

Earth's oceans are MOST helpful in stabilizing Earth's —

- A. force of gravity
- B. average temperature
- C. nearly circular orbit
- D. daily period of rotation

24.

A scientist analyzing past climates finds evidence that a certain region that was once very warm and wet became cooler and drier over time. Which of the following situations could MOST LIKELY be the cause of this climate change?

- A. The water table could have dropped in the area.
- B. Ocean evaporation rates could have increased in the area.
- C. An ocean current could have changed direction away from the area.
- D. An increase in the total amount of water on Earth caused more rain in the area.

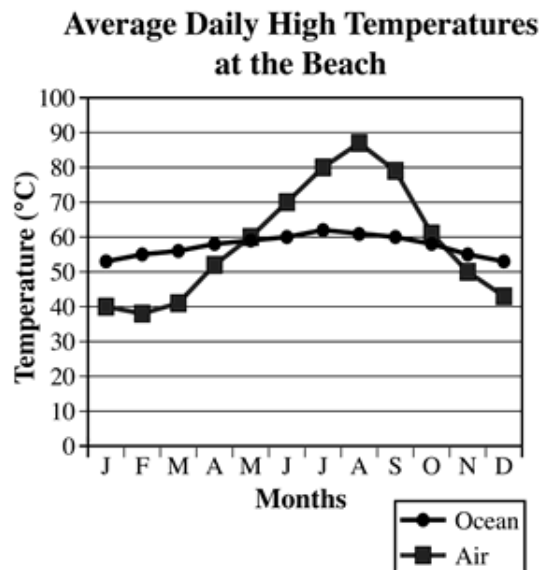
25.

In 1815, tropical volcano Tambora erupted, sending tons of ash and dust into the atmosphere. The following year, 1816, was known in parts of Europe and North America as "the year without a summer." Which of the following would be an immediate effect of an eruption like Tambora's?

- A. Heat from the eruption would melt ice caps, causing sea levels to rise.
- B. Ash would absorb all water vapor in the air, leading to long droughts.
- C. Heat from the eruption would radiate, heating climates worldwide.
- D. Ash would block some sunlight, causing evaporation to decrease.

26.

Carmen collects data about average daily high air and water temperature at the beach.



Which of these should Carmen infer from the graph?

- A. The air temperature is always warmer than the water temperature.
- B. The water temperature is unaffected by the seasonal changes.
- C. The air temperature is measured using more accurate tools.
- D. The water temperature changes more slowly than the air temperature.

27.

Which of these processes removes carbon from the atmosphere?

- A. Combustion of fuels
- B. Photosynthesis
- C. Respiration in cells
- D. Decomposition

28.

Which of these describes a human activity that uses up a non-renewable resource?

- A. Building new roads that cause topsoil to erode
- B. Chopping down trees from the forest for heating homes
- C. Car engines consuming large amounts of fossil fuels
- D. Pollutants on roads washing into streams during rainstorms

29.

In which will a toy boat float higher?

- A. brackish water
- B. distilled water
- C. fresh water
- D. saltwater

30.

Which of these types of water is in order from the most saline to the least saline?

- A. brackish - salt - fresh
- B. brackish - fresh - salt
- C. salt - brackish - fresh
- D. salt - fresh - brackish

31.

Which flooring surface would have the most friction if a chair was pushed across it?

- A. carpet
- B. cement
- C. linoleum
- D. tile

32.

Which units are used to measure speed?

- A. meters (m)
- B. meters per second (m/s)
- C. meters per second squared (m/s^2)
- D. seconds (s)

33.

Which units are used to measure distance?

- A. Celsius
- B. Grams
- C. Liters
- D. Meters

34.

After a new moon when the Earth, moon, and sun create a right angle, the moon is in what phase?

- A. First quarter
- B. Third quarter
- C. Waxing gibbous
- D. Waxing crescent

35.

Which of the following is the property that makes water unique?

- A. It is colorless, odorless, and tasteless
- B. It exists, on Earth, in all of its states
- C. It exists only on Earth
- D. None of the above

36.

What is the force exerted by a 2 kilogram mass traveling at 65 meters per second?

- A. $160 \text{ kg} \cdot \text{m/s}$
- B. $130 \text{ kg} \cdot \text{m/s}$
- C. $160 \text{ kg} \cdot \text{m/s}^2$
- D. $130 \text{ kg} \cdot \text{m/s}^2$

Answer Key

#	Name	Answer	Align.	Stimulus
1	3128968	A	Grade 7 > 5 > 5c	-
2	3135304	C	Grade 7 > 5 > 5b	-
3	3135549	C	Grade 7 > 7 > 7b	-
4	3135594	D	Grade 7 > 9 > 9b	-
5	3135599	D	Grade 7 > 9 > 9a	-
6	3135600	C	Grade 7 > 9 > 9b	-
7	3135603	A	Grade 7 > 9 > 9b	-
8	3135618	D	Grade 7 > 5 > 5b	-
9	3135619	C	Grade 7 > 5 > 5b	-
10	3135628	B	Grade 7 > 5 > 5b	-
11	3135889	D	Grade 7 > 6 > 6g	-
12	3135893	B	Grade 7 > 6 > 6g	-
13	3182397	A	Grade 7 > 5 > 5b	-
14	3182405	D	Grade 7 > 4 > 4c	-
15	3182406	D	Grade 7 > 9 > 9a	-

#	Name	Answer	Align.	Stimulus
16	3183732	D	Grade 7 > 4 > 4c	-
17	3183757	C	Grade 7 > 5 > 5b	-
18	3183773	C	Grade 7 > 4 > 4c	-
19	3183791	B	Grade 7 > 5 > 5b	-
20	3218553	D	Grade 7 > 5 > 5b	-
21	3218559	A	Grade 7 > 5 > 5b	-
22	3218572	D	Grade 7 > 7 > 7a	-
23	3225441	B	Grade 7 > 6 > 6g	-
24	3225442	C	Grade 7 > 6 > 6g	-
25	3225444	D	Grade 7 > 6 > 6g	-
26	3240940	D	Grade 7 > 6 > 6g	-
27	3240974	B	Grade 7 > 4 > 4a	-
28	3240992	C	Grade 7 > 4 > 4c	-
29	SCI070603	D	Grade 7 > 6 > 6f	-
30	SCI070608	C	Grade 7 > 6 > 6f	-
31	SCI070902	A	Grade 7 > 9 > 9c	-

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#	Name	Answer	Align.	Stimulus
32	SCI070904	B	Grade 7 > 9 > 9a	-
33	SCI070903	D	Grade 7 > 9 > 9a	-
34	SCI77C03	A	Grade 7 > 7 > 7c	-
35	6fproperties	B	Grade 7 > 6 > 6f	-
36	newtons2ndlawn	B	Grade 7 > 9 > 9b	-

Checklist List

1)

2)

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