



# Science Spring Break Packet!

This break packet is due Tuesday, April 7<sup>th</sup> and will be counted as a work habits grade for quarter 4!

Score out of 20: \_\_\_\_\_

### Conversion Scores:

20= 100% 19= 95% 18= 90% 17= 85% 16= 80% 15= 75% 14= 70% 13= 65% 12= 60%  
11= 55% 10= 50%

### Performance Level Ratings:

- 4 - Student consistently exceeds the expected understanding of the content area/ skill.
- 3 - Student demonstrates the expected understanding of the content area/ skill. Student functions with minimal teacher assistance and support.
- 2 - Student demonstrates partial understanding of the content area/skill. Student requires frequent teacher assistance and support.
- 1 - Student demonstrates limited understanding of the content area/skill. Student requires intensive teacher assistance, direction and support.



### MC Checklist:

- Key words are circled.
  - Both in the question and longer answer choices.
- Background knowledge is written.
- Answers have a detailed explanation to prove them incorrect.
- Diagrams are labeled.
- Answer is circle AND bubbled in.

Work Habits Score: \_\_\_\_\_

Parent Signature: \_\_\_\_\_

- |                     |                     |
|---------------------|---------------------|
| 1. (A) (B) (C) (D)  | 11. (A) (B) (C) (D) |
| 2. (A) (B) (C) (D)  | 12. (A) (B) (C) (D) |
| 3. (A) (B) (C) (D)  | 13. (A) (B) (C) (D) |
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| 9. (A) (B) (C) (D)  | 19. (A) (B) (C) (D) |
| 10. (A) (B) (C) (D) | 20. (A) (B) (C) (D) |

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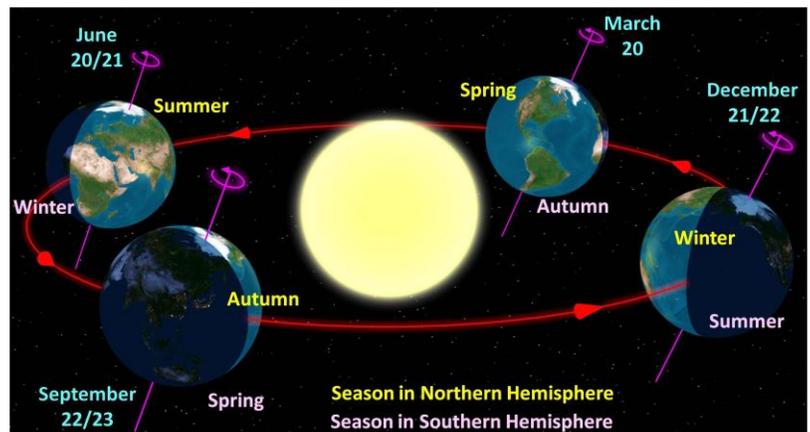
First and Last Name \_\_\_\_\_  
April 4, 2017

# SPRING

**Directions:** Answer each of the multiple-choice questions meticulously by using all your work habits.

- 1. Earth can sustain life due to the fact that there is liquid water on its surface. If the sun were to get larger what would need to happen to earth in order for life to continue to be sustained?**
  - a. Earth would need to move father away
  - b. Earth would need to move close
  - c. Earth would need to shrink in size
  - d. Earth would need to grow in size
- 2. Which soil is considered well-drained?**
  - a. Sand
  - b. Clay
  - c. Peat
  - d. Gravel
- 3. Productive gardens have lots of healthy plants growing. Which TYPE of soil is best for growing a productive garden?**
  - a. Sand
  - b. Clay
  - c. Loam
  - d. Humus

- 4. Using the diagram, which month would have the fewest hours of daylight?**
  - a. March
  - b. September
  - c. June
  - d. December



- 5. The core is made of iron and nickel, however outer core is liquid and the inner core is solid. Which statement best explains why the inner core is solid?**
  - a. Increase in temperature at the center of earth
  - b. Increase in pressure at the center of the earth
  - c. Greater mass than the outer core
  - d. Decrease in earth magnetic field
- 6. Which of the following statements best explains the characteristics of the crust?**
  - a. A solid layer made of iron
  - b. Largest layer made of magma
  - c. A thin layer on the surface of earth
  - d. Smallest layer between the mantle and core





7. Where would you find the most active volcanoes?

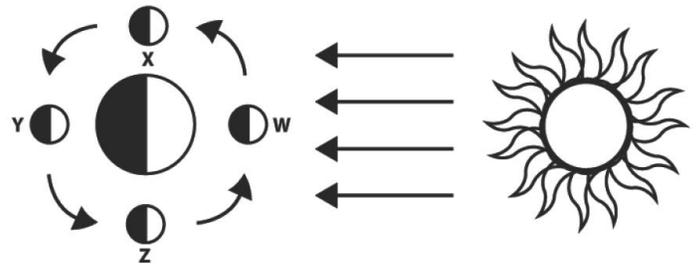
- a. Near a large mountain range
- b. In the middle of the plate
- c. On two oceanic plates
- d. Near the Ring of Fire

8. Perennials like very moist soil that retains a lot of water. Which soil has the best retention?

- a. Sand
- b. Clay
- c. Silt
- d. Peat

9. Which of the following would be experienced when the moon moves into Position W?

- a. Solar Eclipse
- b. Lunar Eclipse
- c. Full Moon
- d. Low Tide

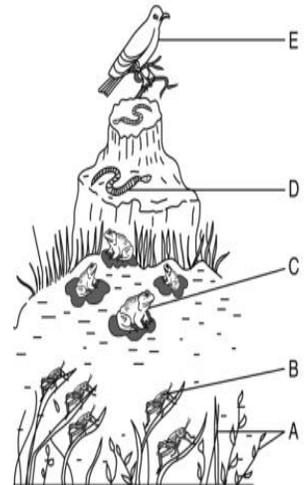


10. What is the missing to complete the equation:  $\text{CO}_2 + \text{Light} + \text{H}_2\text{O} \rightarrow \text{Glucose} + \text{___}$ ?

- a. Oxygen
- b. Carbon dioxide
- c. Glucose
- d. Nitrogen

11. The diagram on the right represents an energy pyramid of a meadow ecosystem. Which best explains why there is a greater number of producers than there are of top predators?

- a. Producers grow faster than all consumers.
- b. Top predators lose more heat than producers.
- c. Producers are not affected by abiotic factors.
- d. Predators have less stored energy to sustain themselves.



12. Which of the following best describes the mantle?

- a. A liquid layer made of iron and nickel
- b. Largest layer made of molten rock
- c. A thin layer on the surface of earth
- d. Smallest layer between the crust and core





13. Which part of the plant takes in carbon dioxide?

- a. 1
- b. 2
- c. 3
- d. 4

14. Which best describes how transpiration occurs?

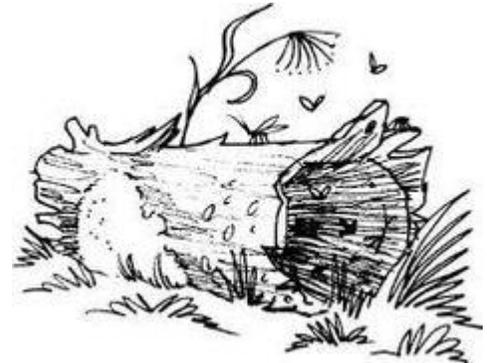
- a. Water is absorbed in the roots, travels up the xylem and out of the stomata.
- b. Water is absorbed in the roots, travels up the phloem and out of the stomata
- c. Water is absorbed by the roots, travels down the xylem and out of the stomata.
- d. Water is absorbed by the leaves, travels down the phloem, and out of the stomata.

15. Which factor will prevent erosion in soil?

- a. High levels of rain
- b. Plowing away topsoil
- c. Increasing organic material
- d. Breaking down bedrock

16. Which of the following organisms would help break down the rotting log into nutrients?

- a. Bird
- b. Vulture
- c. Moss
- d. Mushroom



17. Which of the following correctly orders the moon phases?

- a. New Moon, First Quarter, Full moon, Last Quarter
- b. Last Quarter, First Quarter, New Moon, Full moon
- c. Waxing Gibbous, New Moon, Waning Crescent, Full Moon
- d. New Moon, Waning Crescent, Last Quarter, First Quarter

18. Why do we experience a difference in daylight throughout the year?

- a. Because earth rotates on its axis
- b. Because as earth revolves the position of its tilt changes
- c. Because the moon revolves around earth
- d. Because the earth moves farther and closer from the sun





19. What is produced when a plant breaks down sugar to release energy?

- a. carbon dioxide and water
- b. Glucose and carbon dioxide
- c. Oxygen and glucose
- d. oxygen and carbon dioxide

20. What process has occurred in the plant?

- a. Cellular Respiration
- b. Photosynthesis
- c. Transpiration
- d. Glycolysis



----- Keep going if you want to **keep the crown!** -----



Dear 2026,

We have been working SO hard this quarter to keep the crown from 2024! Over the break we can utilize this time to review content. I attached a study guide resource about every unit we have learned, study a little bit each day. **TIME TO SHOW WHY YOU SHOULD BE ON THE THRONE, not 2024!** Be extraordinary. Do not let all our hard work go to waste! I am so proud of all of you and cannot wait to see how you perform on this final exam.

Best Wishes,  
Ms. Tabin

1st	2026	82%
2nd	2024	78%
3rd	2027	70%
4th	2025	61%

"The only thing harder than making it to the top is staying there."

School Wide Science Q2 Benchmark Data (Taught Content)

**Will we KEEP THE CROWN?!** 

**Decoding the Key:** Use our written background knowledge as a reference when eliminating answer choices. **USE IT AS A TOOL!**

**Pride Goals for the Final Exam**

Pride Goal: Earn an 85% or higher on taught material (overall).

Pride Stretch Goal: Earn the highest percentage on taught material to keep the crown!

Even BIGGER Pride Stretch Goal: Earn an 90% or higher overall average on our final exam scores!

**ATTENTION:** *These problems on the next page are above and beyond questions to sharpen your skills when we return on April 7th. If we were to be out longer than through April 7th for any reason, these are NO LONGER an Above and Beyond and should be completed by all students.*





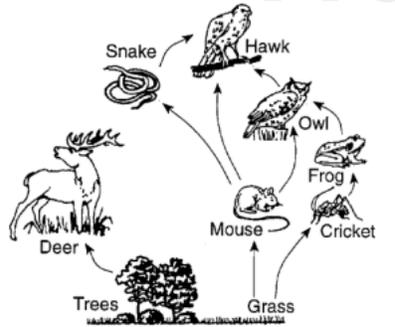
Name \_\_\_\_\_

# Above and Beyond

**(UNLESS we are out of school past April 7<sup>th</sup>... then these become MANDATORY.)**

1. Forest fires destroy all the grass in the ecosystem to the left, which limits the food for the mouse population. Which organisms would most likely be poorly affected by a continuous decrease in the population of mice?

- a. Grass
- b. Deer
- c. Crickets
- d. Hawks



2. A food chain is shown.

**Grass → Grasshopper → Frog → Snake → Hawk**

Which statement describes what will happen if all the frogs die?

- a. The hawk population will increase.
- b. The snake population will stay the same.
- c. The grasshopper population will increase.
- d. The grass population will stay the same.

3. On January 15<sup>th</sup>, there were 10 hours and 24 minutes of daylight in Jacksonville, Florida. On the same day, there were only 9 hours and 37 minutes of daylight in New York City. Why did New York have fewer hours of daylight than Florida?

- a. because as Earth rotates it causes less hours of daylight a locations near the poles.
- b. because as Earth revolves the sun the certain locations are tilted away from the sun.
- c. because gravity pulls Earth towards the Sun making the equator the hottest area.
- d. because the moon reflects sunlight onto Earth at different angles.

4. Mr. Jones is having issues on his farm because his soil is being eroded away. He asks for your help and advice. Which of the following would you advise Mr. Jones to do to prevent erosion?

- a. Decrease the amount of vegetation
- b. Increase the amount of plowing
- c. Rotate the crops each year
- d. Decrease the amount of organic material

1.	A	B	C	D
2.	A	B	C	D
3.	A	B	C	D
4.	A	B	C	D
5.	A	B	C	D
6.	A	B	C	D
7.	A	B	C	D
8.	A	B	C	D
9.	A	B	C	D
10.	A	B	C	D

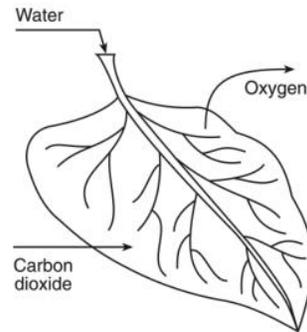
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5. Which answer choice only shows the ingredients of cellular respiration?

- a. Glucose and water
- b. ATP and oxygen
- c. Oxygen and glucose
- d. Water, sunlight and oxygen

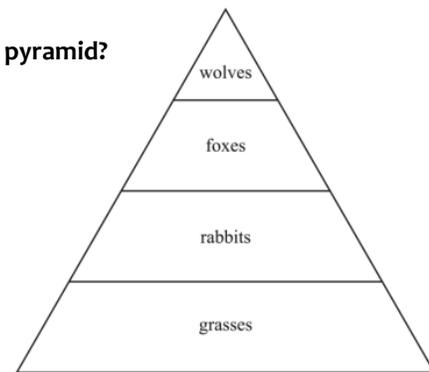
6. What chemical reaction is occurring in the diagram on the right?

- a. Photosynthesis
- b. Transpiration
- c. Cellular Respiration
- d. Evaporation



7. Which statement best describes the flow of energy as it passes through the organisms in the pyramid?

- a. Energy flows through the organisms from bottom to top and increases at each level.
- b. Energy flows through the organisms from bottom to top and decreases at each level.
- c. Energy flows through the organisms from top to bottom and increases at each level.
- d. Energy flows through the organisms from top to bottom and decreases at each level.



8. What caused the massive erosion during the Dust Bowl?

- a. Crop rotation
- b. Increase in nutrients
- c. Removal of humus
- d. Increase in decomposers

9. In 1912, Wegener proposed the theory of continental drift based on multiple pieces of evidence he collected. However, the science community rejected his theory at the time. Which piece of evidence best supported Wegener's hypothesis of continental drift?

- a. The ocean current patterns and their yearly shift in direction.
- b. Similar fossils of giant, land-dwelling dinosaurs are found on continents separated by oceans.
- c. Similar rock formations found in South America and Africa created very similar soil types.
- d. Increased rate of compaction that lead to more ocean animals to be fossilized.

10. In the diagram below, what does X most likely represent?

- a. Autotrophs
- b. Herbivores
- c. Decomposers
- d. Carnivores

