

**THE STUDY GUIDE FOR THE 1<sup>ST</sup> MID-TERM TEST**

2022

**PART I. SCIENCE VOCABULARY & KNOWLEDGE REVIEW (Week 1 - 10)**

Topic	Science vocabulary	Science knowledge
<b>What Plants Need</b>	<i>orchid, to cling, branch, treetop, to require, to compete, to block, fog, shade</i>	<ul style="list-style-type: none"><li>❖ Plants need three main things to grow: sunlight, air, and water</li><li>❖ In a rain forest, the tall trees compete for sunlight. By growing on another plant, the orchid is able to get the sunlight it needs to survive.</li><li>❖ Since the orchid is growing on a tree, its roots cannot take water out of the ground. The orchid gets water from rain and fog.</li></ul>
<b>How Plants Get Energy</b>	<i>photosynthesis, pigment, chlorophyll, to release, to carry out, to store</i>	<ul style="list-style-type: none"><li>❖ Plants make their own food in a chemical process called photosynthesis.</li><li>❖ The green pigment chlorophyll that found in the leaves captures the energy of sunlight.</li><li>❖ Plants use carbon dioxide and water to make food.<ul style="list-style-type: none"><li>• Plants take in carbon dioxide from the air.</li><li>• The water is taken up from soil or from the air.</li></ul></li><li>❖ The main product of photosynthesis is food in the form of sugar.</li><li>❖ Photosynthesis also produces oxygen, which is released into the air.</li></ul>
<b>Materials for Plant Growth</b>	<i>mineral, nutrient, material, to take in, fertilizer, to dissolve, source, building block</i>	<ul style="list-style-type: none"><li>❖ Plants use sugar producing from photosynthesis as a source of stored energy.</li><li>❖ Plants also use sugar as a building block to make new leaves, stems, and roots.</li><li>❖ Mineral nutrients are dissolved in water. When a plant takes in water, it also takes in nutrients.</li><li>❖ By adding fertilizers, gardeners and farmers add mineral nutrients to the plants.</li></ul>
<b>Desert Food Chain and Food Web</b>	<i>organisms, producers, consumers, combination, variety</i>	<ul style="list-style-type: none"><li>❖ Producers make their own food and get energy directly from the Sun.</li><li>❖ Consumers get energy by eating other organisms as food.</li></ul>

		<ul style="list-style-type: none"> <li>❖ A food chain is a path by which energy flows from one living thing to another in an environment. Sunlight is the source of energy for the food chain.</li> <li>❖ A food web is a combination of food chains that shows how energy moves from the sun through an environment.</li> </ul>
<b>Decomposers</b>	<i>to decompose, to decay, mold, yeast, fungus, microscopic, bacterium, molds, yeasts, mushrooms</i>	<ul style="list-style-type: none"> <li>❖ A decomposer is an organism that breaks down dead organisms and the waste of living things.</li> <li>❖ Fungi and bacteria are decomposers.</li> <li>❖ Decomposition eventually restores, or recycles nutrients.</li> </ul>

## PART II. PRACTICE

### Task 1: Choose the correct answers.

**1. What are three main things plants need to grow?**

- A. Sunlight, air, soil.
- B. Sunlight, water, soil.
- C. Water, air, soil.
- D. Water, air, sunlight.

**2. Why does the orchid plant have to grow and cling on the treetop?**

- A. To get more soil.
- B. To get more water.
- C. To get more sunlight.
- D. To get more air.

**3. Where is chlorophyll found?**

- A. In air.
- B. In water.
- C. In leaves.
- D. In soil.

**4. The green pigment chlorophyll captures the energy of .....**

- A. sunlight.
- B. soil.
- C. air.
- D. water.

**5. In a rain forest, the tall trees compete for .....**

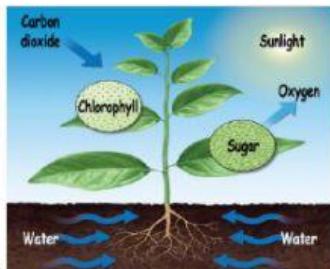
- A. food.
- B. sunlight.
- C. rain.
- D. air.

**Task 2: Match the words in the box with the pictures.**

A. Chlorophyll	B. Fertilizer	C. Nutrient	D. Photosynthesis	E. Orchid
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6.



7.



8.



9.



10.

Answer: 6. \_\_\_\_\_, 7. \_\_\_\_\_, 8. \_\_\_\_\_,  
9. \_\_\_\_\_, 10. \_\_\_\_\_.

**Task 3: Read and circle True or False.**

- |   |            |
|---|------------|
| 11. The orchid gets water from rain and fog.                        | True/False |
| 12. All plants can grow in the deep shade of the forest floor.      | True/False |
| 13. Carbon dioxide is produced in photosynthesis.                   | True/False |
| 14. Plants use oxygen and water to make food                        | True/False |
| 15. The main product of photosynthesis is food in the form of sugar | True/False |

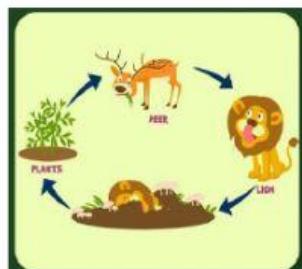
**Task 4: Fill in the blanks with words in the box.**

nutrients	photosynthesis	fertilizers	energy	mineral nutrients
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- 16 & 17. Plants use sugar producing from \_\_\_\_\_ as a source of stored \_\_\_\_\_.  
18. \_\_\_\_\_ are dissolved in the water that plants take in.  
19 & 20. By adding \_\_\_\_\_, gardeners and farmers add \_\_\_\_\_ to the plants.

**Task 5: Fill ONE word in the blank to answer questions below.**

**21. What is the source of energy for the food chain?**



**Answer:**

\_\_\_\_\_ is the source of energy for the food chain.

**22 & 23. What are producers and how do they get energy?**



**Answer:**

Producers make their own \_\_\_\_\_ and get energy directly from the \_\_\_\_\_.

**24. What is an organism?**



**Answer:** An organism is an animal or plant, or any other \_\_\_\_\_ thing.

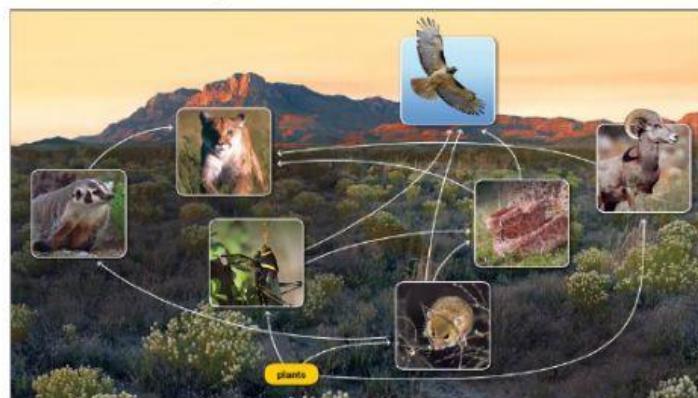
**25. Match the organisms with their type.**

- |                 |                |
|-----------------|----------------|
| a. molds        | 1. consumers.  |
| b. apple trees  | 2. producers.  |
| c. grasshoppers | 3. decomposers |
| d. fungus       |                |
| e. grass        |                |

**28. What are NOT fungus?**

- A. Molds
- B. Bacteria
- C. Mushrooms
- D. Yeasts

26 & 27. Look at the picture and answer question 27 and 28.



26. What do the arrows in the diagram show?

- A. The flow of nutrient from one organism to another.
- B. The flow of energy from one organism to another.
- C. The flow of energy of the same organisms.
- D. The flow of nutrient of the same organisms.

27. How many food chains is the mountain lion part of?

- A. The mountain lion is a part of 1 food chain.
- B. The mountain lion is a part of 2 food chains.
- C. The mountain lion is a part of 3 food chains.
- D. The mountain lion is a part of 4 food chains.

29. Why are decomposers important to plants?



- A. Decomposers release nutrients that plants need to grow.
- B. Decomposers release sunlight that plants need to grow.
- C. Decomposers release air that plants need to grow.
- D. Decomposers release water that plants need to grow.

30. Choose the picture which is NOT a decomposer.



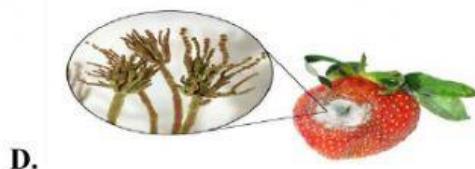
A.



B.



C.



D.