

**THE STUDY GUIDE FOR THE 1ST MID-TERM TEST****PART I. SCIENCE VOCABULARY & KNOWLEDGE REVIEW (Week 1 - 10)**

Topic	Science vocabulary	Science knowledge
What Plants Need	<i>orchid, to cling, branch, treetop, to require, to compete, to block, fog, shade</i>	❖ Plants need three main things to grow: sunlight, air, and water ❖ 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. ❖ 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.
How Plants Get Energy	<i>photosynthesis, pigment, chlorophyll, to release, to carry out, to store</i>	❖ Plants make their own food in a chemical process called photosynthesis. ❖ The green pigment chlorophyll that found in the leaves captures the energy of sunlight. ❖ Plants use carbon dioxide and water to make food. • Plants take in carbon dioxide from the air. • The water is taken up from soil or from the air. ❖ The main product of photosynthesis is food in the form of sugar. ❖ Photosynthesis also produces oxygen, which is released into the air.
Materials for Plant Growth	<i>mineral, nutrient, material, to take in, fertilizer, to dissolve, source, building block</i>	❖ Plants use sugar producing from photosynthesis as a source of stored energy. ❖ Plants also use sugar as a building block to make new leaves, stems, and roots. ❖ Mineral nutrients are dissolved in water. When a plant takes in water, it also takes in nutrients. ❖ By adding fertilizers, gardeners and farmers add mineral nutrients to the plants.
Desert Food Chain and Food Web	<i>organisms, producers, consumers, combination, variety</i>	❖ Producers make their own food and get energy directly from the Sun. ❖ Consumers get energy by eating other organisms as food.

		❖ 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. ❖ A food web is a combination of food chains that shows how energy moves from the sun through an environment.
Decomposers	<i>to decompose, to decay,</i> <i>mold, yeast, fungus,</i> <i>microscopic, bacterium,</i> <i>molds, yeasts,</i> <i>mushrooms</i>	❖ A decomposer is an organism that breaks down dead organisms and the waste of living things. ❖ Fungi and bacteria are decomposers. ❖ Decomposition eventually restores, or recycles nutrients.

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

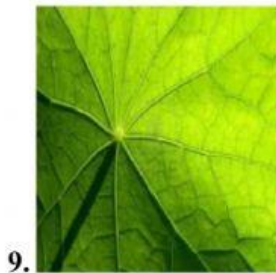
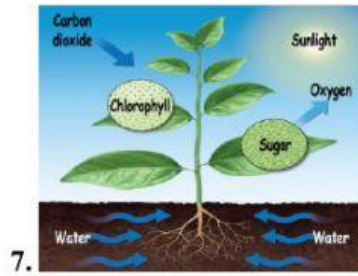
- A. sunlight.
- B. soil.
- C. air.
- D. water.

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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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 |

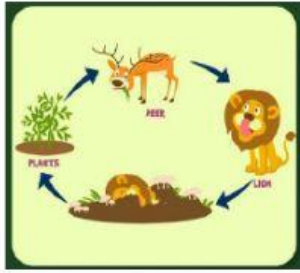
Task 4: Fill in the blanks with words in the box.

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.

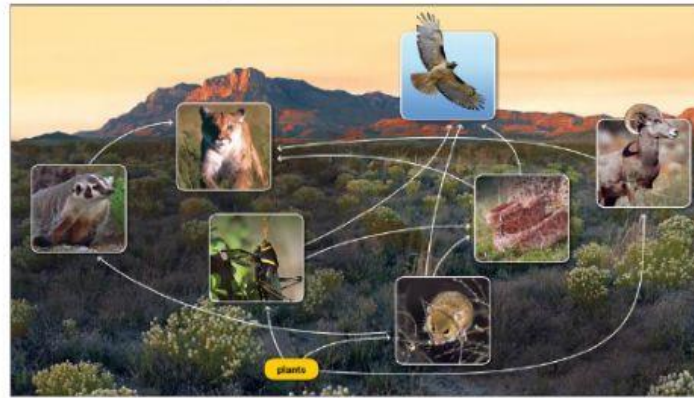
25. Match the organisms with their type.

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

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.



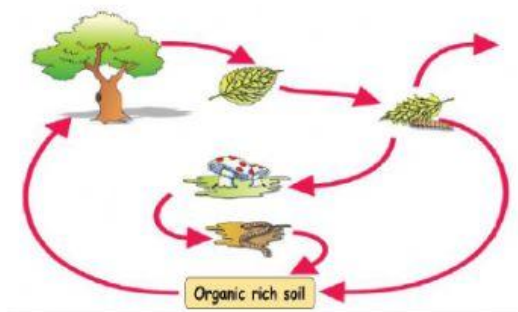
26. What do the arrows in the diagram show?

- 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.

