

**THE STUDY GUIDE FOR THE 1<sup>ST</sup> END TERM TEST****PART I. SCIENCE VOCABULARY & KNOWLEDGE REVIEW**

Topic	Science vocabulary	Science knowledge
<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. 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. 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. 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. By adding fertilizers, gardeners and farmers add mineral nutrients to the plants.</li></ul>
<b>Desert Food Chain</b>	<i>organisms, producers, consumers</i>	<ul style="list-style-type: none"><li>❖ Producers make their own food and get energy directly from the Sun. Consumers get energy by eating other organisms as food.</li><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></ul>
<b>Desert Food Web</b>	<i>combination, a variety</i>	<ul style="list-style-type: none"><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>
<b>Tallgrass Prairie Ecosystem</b>	<i>Prairie, ecosystem, environment, fertile, reserve, bison, horned lark, to weave, to burrow</i>	<ul style="list-style-type: none"> <li>❖ An ecosystem is all the living and nonliving things in an area and the ways they interact.</li> <li>❖ A healthy ecosystem is one in which many types of living things are able to meet their needs.</li> </ul>
<b>Grassland Population and Communities</b>	<i>prairie dog, black-footed ferret, variety, particular, species, individual</i>	<ul style="list-style-type: none"> <li>❖ Scientists classify the organisms in an ecosystem into three levels – individual, population, and community. <ul style="list-style-type: none"> <li>- A single organism is an individual in an ecosystem.</li> <li>- A population is all the individuals of a species living together in a particular place.</li> <li>- All the populations of organisms that live and interact in that part of the prairie form a community.</li> </ul> </li> <li>❖ Different species in a community are connected by a variety of food chains and food webs.</li> <li>❖ All of the communities plus the physical parts of the environment that interact together make up the ecosystem.</li> </ul>

## PART II. PRACTICE

### Task 1: Choose the correct answers.

#### 1. What makes up an ecosystem?

- A. Sunlight and living things.
- B. Plants and nonliving things.
- C. Plants and animals.
- D. Living and nonliving things.

#### 2. An \_\_\_\_\_ is all the living and nonliving things in an area and the ways they interact.

- A. population
- B. ecosystem
- C. environment
- D. individual

#### 3. What are three levels of organisms?

- A. individual, population, and environment
- B. individual, species, and community
- C. species, population, and community
- D. individual, population, and community

#### 4. A single organism is an \_\_\_\_\_ in an ecosystem.

- A. species.
- B. ecosystem.
- C. individual.
- D. environment.

5. Different species in a community are connected by a variety of \_\_\_\_\_.

- A. food chains and food webs
- B. sunlight and food chains
- C. sunlight and food webs
- D. sunlight

6&7.



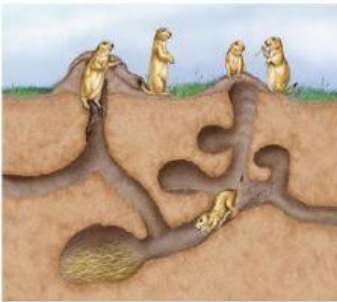
6. What animals are they?

- A. They are bison.
- B. They are horned larks.
- C. They are burrowing owls.

7. How do these bison interact with living things?

- A. The bison drink water.
- B. The bison eat the grasses growing in the prairie.
- C. The bison breathe the air.

8. Which picture shows a community?



A.



B.





C.



D.

9. All of the communities plus \_\_\_\_\_ of the environment that interact together make up the ecosystem.

- A. the physical parts
- B. the chemical parts
- C. the living parts
- D. the populations

10. What is the meaning of “species”?

- A. a single person or thing.
- B. all the individuals of a species that live in an area.
- C. a group of same kind of animals or plants.
- D. all the living things.

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

A. Individual	B. Ecosystem	C. Population	D. Environment	E. Community
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11.



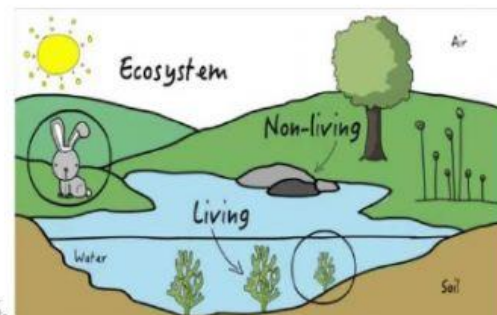
12.



13.



14.



15.

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

16. The chlorophyll found in leaves. **True/False**
17. Consumers make their own food and get energy directly from the sun. **True/False**
18. Oxygen is produced in photosynthesis. **True/False**
19. Plants use oxygen and water to make food. **True/False**
20. The green pigment chlorophyll captures the energy of soil. **True/False**

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

living	species	nonliving	population	community
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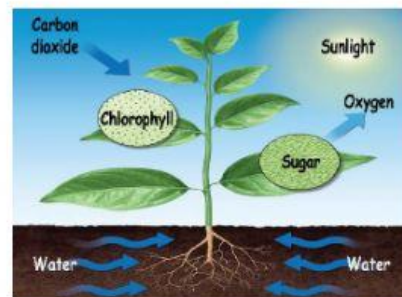
21. \_\_\_\_\_ a group of the same kind of animals or plants.
- 22&23. A \_\_\_\_\_ is made up of one species, but a \_\_\_\_\_ is made up of many species in a particular area.
- 24&25. An ecosystem is all the \_\_\_\_\_ and \_\_\_\_\_ things that interact in an area.

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

26. What is the main product of photosynthesis?

**Answer:**

The main product of photosynthesis is food in the form of \_\_\_\_\_.



27&28. How do producers get energy?

**Answer:**

Producers get energy directly from the \_\_\_\_\_.



29. What is a single organism in an ecosystem?

**Answer:**

A single organism is a/an \_\_\_\_\_ in an ecosystem.

**30. Match these organisms with their type.**

- |                 |                 |
|-----------------|-----------------|
| a. Bacteria     | 1. Consumers.   |
| b. Bison        | 2. Producers.   |
| c. Prairie dogs | 3. Decomposers. |
| d. Grasses      |                 |
| e. Mushrooms    |                 |