Name _____ Period _____

# "Bill Nye: Biodiversity" Video Worksheet

http://www.youtube.com/watch?v=-CnZSqUjSAE

1. For a(n) _____ to be healthy, it has to have lots of different kinds of plants and animals.

2. Name four types of ecosystems from those listed in the video.
   a.
   b.
   c.
   d.

3. Describe what Bill Nye was trying to demonstrate by removing some of the blocks in his tower of blocks.

4. All living things depend on _____.

5. Name at least two species that have gone extinct. *(four were shown)*

6. The best way to wipe out a species is to _____.

7. The largest ecosystem in the world is _____, where 2/3 of all species live.

8. List five things you can do to increase biodiversity.
   a.
   b.
   c.
   d.
   e.

9. Of the 30,000,000 species on Earth, how many are lost each HOUR? _____

10. In conclusion, Bill Nye states that "As more and more species disappear, it's harder and harder to keep an ecosystem in balance *because we don't know* ***WHAT?***

***REFLECTION (answer completely on the back of this page):***

Why does biodiversity matter? What is the relationship between biodiversity and number of populations?

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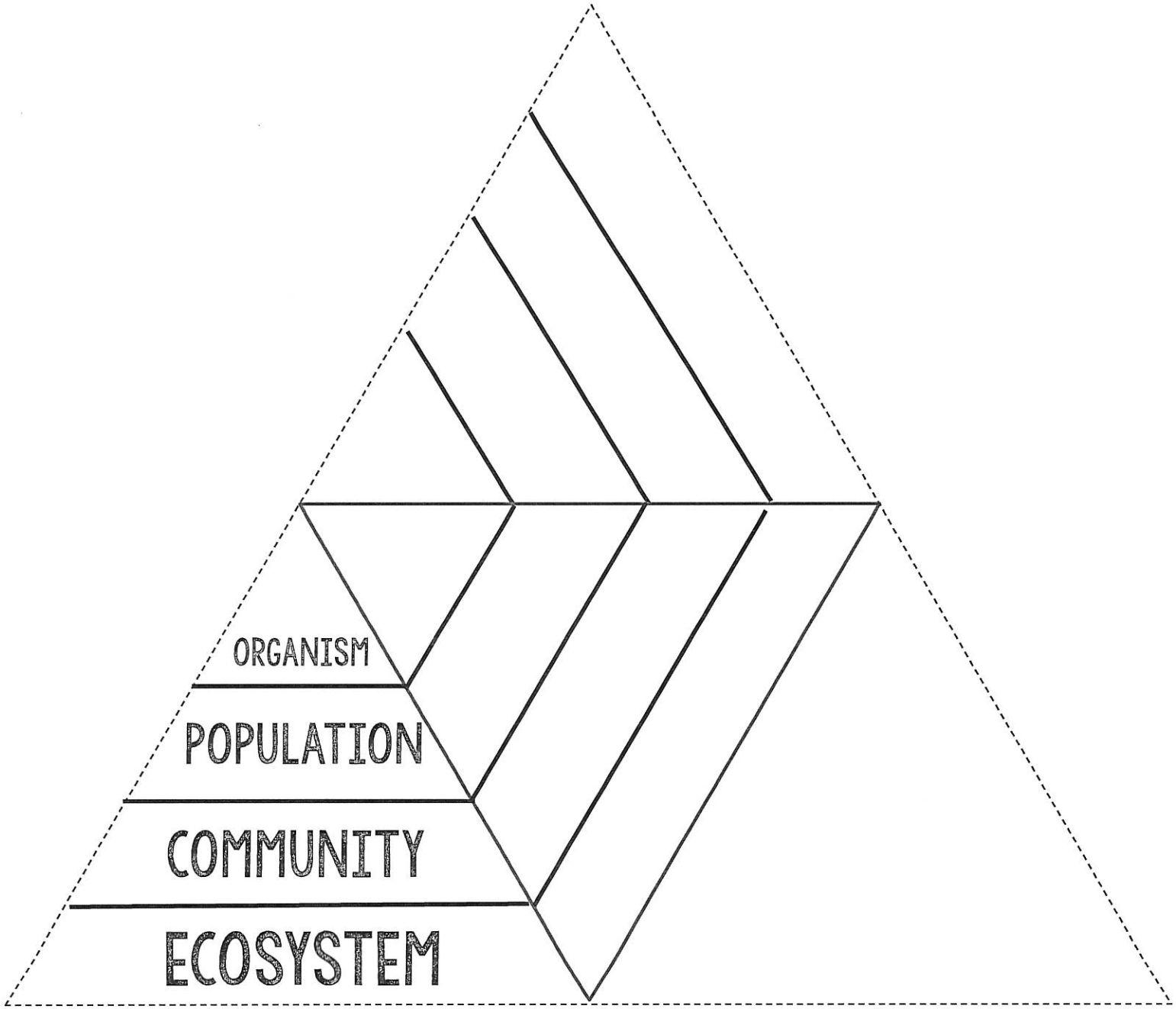
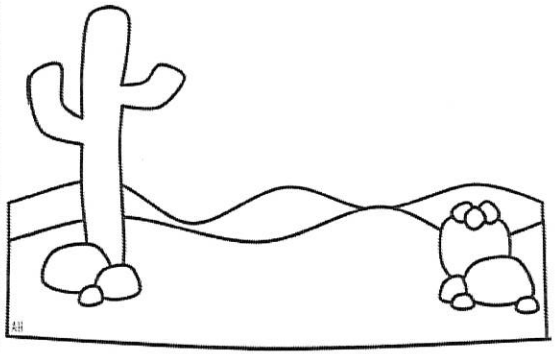
# ECOSYSTEM LEVELS



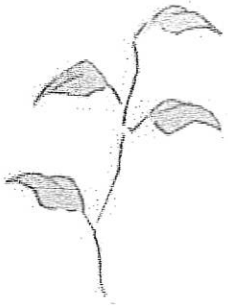
# BIOTIC AND ABIOTIC PARTS OF A DESERT ECOSYSTEM

| | | |
|---|---|---|
| Desert Ecosystem  | Abiotic Parts of a Desert Ecosystem | Biotic Parts of a Desert Ecosystem |

Name _____ Date _____

# Quiz

## *Plants*



## True or False? Circle T or F

1. The nettle plant has spines that protect it against animals. T or F
2. All plants need roots to obtain nutrients in order to live and grow. T or F
3. Some plants digest animals to supplement the nutrients they get from the soil. T or F
4. Plants make their own food by using the sunlight to make salt. T or F
5. During photosynthesis, all plants make the same kind of sugar. T or F
6. When plants make food, they release oxygen into the air. T or F

## Multiple Choice: Circle the letter of the best answer

7. Which of the following is correct about how plants relate to animals in the Earth's system?
   - A. Plants take in nitrogen that is given off by animal respiration.
   - B. Plants take in carbon dioxide given off by animals, fungi, and other plants.
   - C. Animals use carbon dioxide that is given off by plants during photosynthesis.
   - D. Plants depend on animals for sunlight and chlorophyll that are used during photosynthesis.

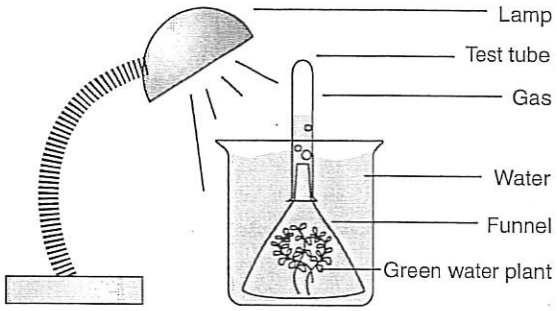
8. Which of the following methods is used by plants to disperse their seeds widely?
   - A. Wind
   - B. Sticking on animal fur
   - C. Traveling through an animal's digestive system
   - D. All of the above

9. Which of the following are correct structures and functions of desert plants?
   - A. Desert plants can store water in their fleshy stems and pads.
   - B. Cactus spines are used to attract animals.
   - C. The cactus spines are excellent at releasing water.
   - D. All of the above.

10. Which of the following correctly explains how the plant obtains its energy?
    - A. Plants get their energy from an extensive root system.
    - B. Energy enters the plant when sunlight is trapped by chlorophyll.
    - C. Energy is obtained when carbon dioxide is changed into sugar.
    - D. All of the above.

**32**

Photosynthesis Experiment




**Which gas is forming in the test tube shown above?**

**A** carbon dioxide

**B** hydrogen

**C** oxygen

**D** nitrogen

CSZ10031

**33** **Which of the following is broken down in the body to release energy?**

**A** sugar

**B** water

**C** salt

**D** oxygen

CSZ10247

**34** **Which of the following is produced when sugar is digested in an animal cell?**

**A** carbon dioxide

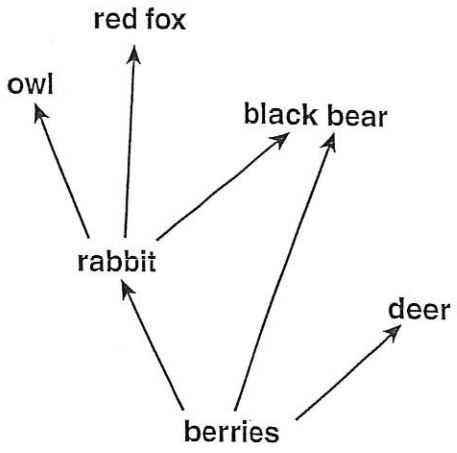
**B** chlorophyll

**C** oxygen

**D** sunlight

CSZ10238

**35** **The diagram below shows a simple food web.**




**Which animal is classified as an omnivore?**

**A** red fox

**B** deer

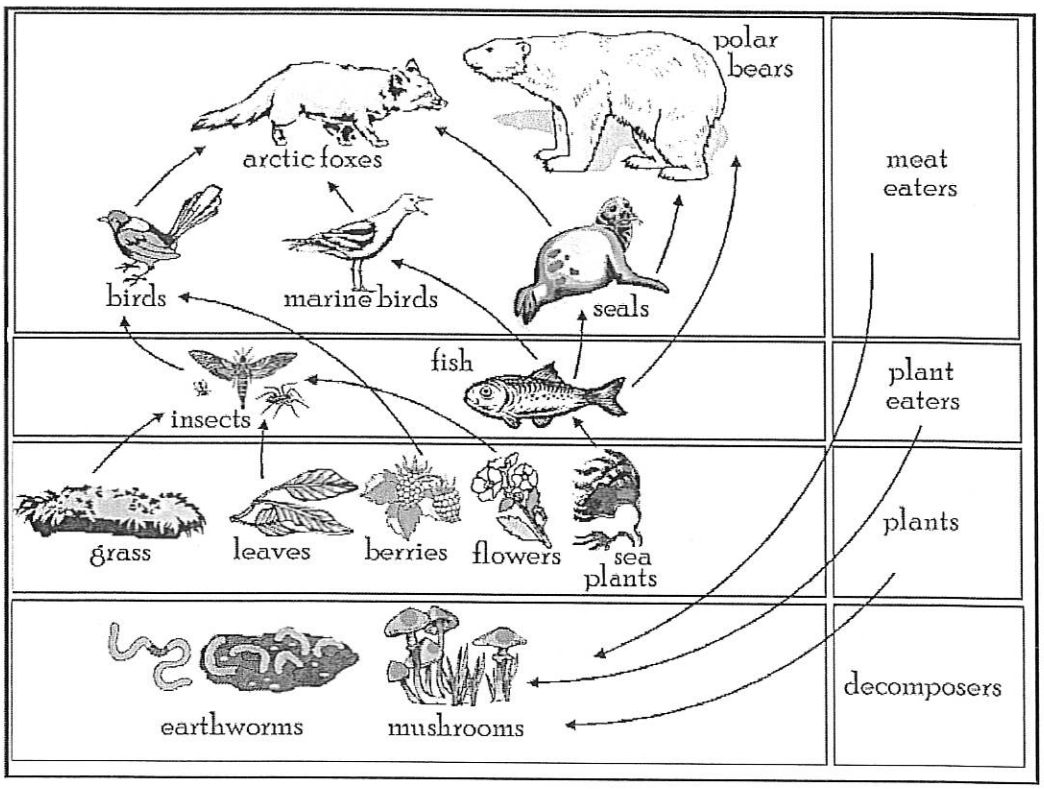
**C** black bear

**D** rabbit

CSZ20162

## FOOD WEB

Look at the figure below. It shows some of the animals that live on an island.




The arrows show the source of energy for these living creatures. For example, the arrow pointing from the fish to the seal shows that the seals eat fish as a source of energy.

### 18

What do marine birds eat as a source of energy?

A. Berries B. Fish C. Leaves D. Mushrooms

### 19

According to this diagram, what do insects and fish eat as a source of energy?

A. Meat eaters B. Plant eaters C. Plants D. Decomposers

### 20

For a source of energy, arctic foxes eat

A. grass. B. flowers. C. insects. D. seals.