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## 2-2A Understanding Nutrient Cycles – Use pages 69 from textbook

Figure 2.16 on page 69 represents a model of a nutrient cycle that takes place without human interference. In this activity, you will study this model to become familiar with the different parts of a nutrient cycle.

1. Work with a partner and study Figure 2.16 closely. (Keep one of your textbooks open to page 69).

2. Identify where nutrients are stored.

Nutrients are stored in Earth's atmosphere, oceans, and land masses.

3. Identify the nutrient flows. Describe any patterns that you see.

Descriptions may vary

Biotic processes, such as decomposition, and abiotic processes, such as river run-off, can cause nutrients to flow in and out of stores.

4. Infer the way in which nutrients travel from land to oceans.

Runoff on the ground, through rivers, or in the water table

5. Identify the state in which nutrients enter the atmosphere (ex. As liquids, solids, or gases).

Cellular respiration involves carbohydrates reacting with oxygen to form carbon dioxide, water, and energy.

6. State where the fastest exchange of nutrients takes place.

Biotic – producers, consumers, and decomposers in the ocean and on land

7. State how producers might contribute to nutrient cycles.

Photosynthesis converts solar energy into chemical energy. Carbon, in the form of carbon dioxide, enters through the leaves of plants and, in the presence of sunlight, reacts with water to produce carbohydrates and oxygen.

8. Hypothesize how human activities might alter a nutrient cycle.

Descriptions may vary – pollution, transportation and CO<sub>2</sub>

9. Explain why the arrows are drawn in different sizes.

The arrows indicate the amount of nutrients being exchanged and stored.

10. What conclusion can you make about nutrient stores in marine sediments and sedimentary rocks?

Since the arrows are large, this indicates a large amount of nutrients is stored in marine sediments and sedimentary rock.

11. (a) What biotic processes may take place in a nutrient cycle?

The biotic processes include decomposers releasing nutrients into the soil for plants, plants taking up the nutrients, consumers eating the plants, and then the plants and animals dying and the decomposers repeating the process. Also, plants exchange gases with the atmosphere.

(b) what abiotic processes may take place?

Abiotic processes could include precipitation and the return of nutrients to land or the ocean as rain, erosion, and run-off.

12. Do nutrients leave the biosphere? Explain.

*Answer Key*

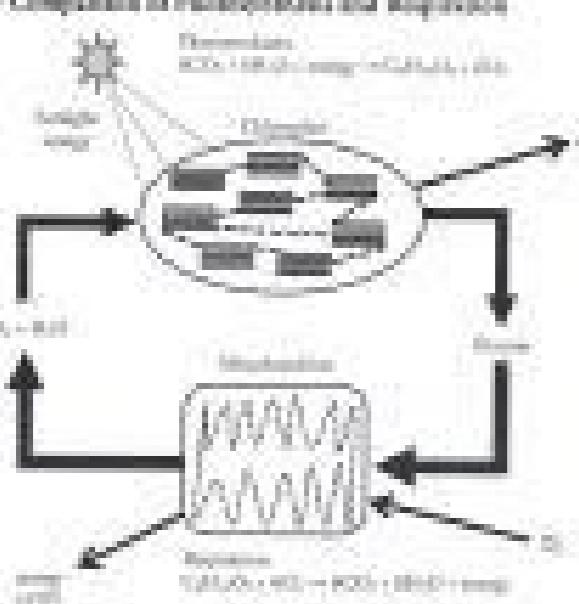
### Photosynthesis and Respiration

Where the relationship between photosynthesis and cellular respiration

#### Why?

This diagram shows the relationship between photosynthesis and cellular respiration. This is essential to remember for the survival of almost all living organisms because all organisms are either a producer or consumer, and therefore are part of the cellular level and species that communicate.

#### Model 1 – Comparison of Photosynthesis and Respiration



#### 1. Write on blank

- 1. In the diagram above photosynthesis would:
- a. Capture light
- b. Use the energy to make glucose
- c. Use the energy to move water

#### 2. Respiration and

Top half 1. Carbon dioxide, water, sunlight. 7. Matter: carbon dioxide, water, sugar, oxygen Energy: Sunlight (kinetic), glucose (potential)8. Related searches for biology pogil photosynthesis answer key; Pogil Biology Answer Key Pogil Answers for Teachers Photosynthesis Pogil Answers AP Biology Photosynthesis Pogil Answers Pogil Worksheet Answers AP Biology Cellular Respiration Pogil Answer KeyTag:photosynthesis pogil packet answers in a Leaf What's the relationship between structure and function in a leaf? List three substances leaving the leaf. Chloroplasts here would be wasted since little light gets down to them. Leaves are like living machines that recycle the carbon and oxygen in our environment. The palisade mesophyll makes the whole leaf green because the cells there are the only ones that contain chloroplasts, which contain the green pigment chlorophyll.15. Why? you have convenient answers with photosynthesis what in a ... Label the central vein in the leaf diagram.sunlight, carbon dioxide, watersugars, water (gas), oxygen 1. It would also mean no oxygen for ...Tag:photosynthesis what is a leaf pogil what in a leaf pogil answer key PDF. Reactants are the ingredients in a chemical reactions. We also many ebooks and user guide is also related with photosynthesis what in a ... Label the central vein in the leaf diagram.sunlight, carbon dioxide, watersugars, water (gas), oxygen 1. It would also mean no oxygen for ...Tag:photosynthesis what is a leaf pogil what in a leaf pogil answer key.pdf FREE PDF DOWNLOAD NOW!!! Source #2: photosynthesis what in a leaf pogil answer key.pdf FREE PDF DOWNLOAD POGIL | Home pogil.org What is POGIL? Carbon Dioxide and Water b) Reactants enter? This process, driven by the sun's energy, allows for a constant supply of oxygen and food for the inhabitants of Earth.Model 1 – Leaf Sun-CatcherSunlight(energy)Carbon dioxide OxygenWater(gas)Water(liquid)SugarsWater(gas)General Equation for Photosynthesis Reactants Products light carbon dioxide + water → sugars + oxygen energy 1. It would also mean no oxygen for animals and no food for heterotrophs. What would the world be like without leaves—no grass for ball fields, no beautiful landscaping? middle of leaf 10. More chloroplasts can then exist and they have more room to move around so they can take turns getting sun.18. Water4.5. Liquid entering, gas leaving. Some cells, like the guard cells and spongy mesophyll regulate the products and reactants in the leaf to make photosynthesis run at optimal levels.19. 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