Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Hour: 1st 2nd 6th **Unit Test Study Guide**

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| **Concept Overview: Main Ideas & Standards***MS-LS1-6:* Trace the movement of matter and flow of energy through an ecosystem*MS-LS1-7:* Molecules from food/glucose are broken apart and the pieces are used to create waste. Energy released in the reaction is used to fuel the body.*MS-LS2-3:* Create and use models to show the flow of energy in an ecosystem.*MS-LS2-4:* Recognize patterns in models and predict how changes to the pattern will affect the ecosystem.**What to Expect on the Test*** *Vocabulary section:* Some selected vocabulary words from each section are arranged on a crossword puzzle. Use the clues to place the words into the crossword.

* *Multiple choice:*  Questions are given with options for answers. Write the answer in the blank.
* *Matching:* A range of descriptions match up to a list of words. Use each word once only.
* *Short answer:* Questions are to be answered in complete sentences. Restate the question to help you start your answer. Make sure you answer all parts of the question.
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**Concepts: Photosynthesis & Cellular Respiration**

**Recall** the photosynthesis equation below:

\_\_\_\_\_\_\_\_\_\_\_ + \_\_\_\_\_\_\_\_\_\_\_\_ + \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ → \_\_\_\_\_\_\_\_\_\_\_\_ + \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Recall** the cellular respiration equation below:

\_\_\_\_\_\_\_\_\_\_\_ + \_\_\_\_\_\_\_\_\_\_\_\_ → \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ + \_\_\_\_\_\_\_\_\_\_\_\_ + \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Identify** each of the following symbols and/or chemical formulas used in our equations.

CO2 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ O2 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ H2O = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

C6H12O6 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ → = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Concept: Food Webs & Energy Flow in Ecosystems**

**Identify:** Where does all energy from the ecosystem originally come from? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Extend:** How does the energy flow through the ecosystem after that? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_



**Predict:** In this food web, describe in complete sentences **3 things** that might happen as a result of the lion disappearing from this ecosystem.

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**Identify:** The predator of the frog is: \_\_\_\_\_\_\_\_\_\_\_

**Describe:** How would the snake be affected if the sun were blocked out for an extended time?

**Use the table below to create a small food web.**

Drawings are optional in this model.