



### Food Webs Lesson 1: “The Solve”

#### Student Handout

#### I. Watch The Mosa Mack Mystery

Either on your own, in a small group or as a class (your teacher will let you know), watch Mosa Mack’s episode on Food Webs. Then, fill out the questions below. Include a time code in your answer as evidence of where you found your answer.

**Name:** \_\_\_\_\_

**Date:** \_\_\_\_\_

#### Episode Questions

1. State clearly the problem that Frank, the frog, is facing.
2. Explain where the frog, the grasshopper and the plants get the energy for all life processes?
3. Construct a diagram to show how energy flows through the ecosystem in which the grasshopper lives.
4. Why is the movement of matter among the living (biotic) and nonliving (abiotic) parts of this ecosystem important?



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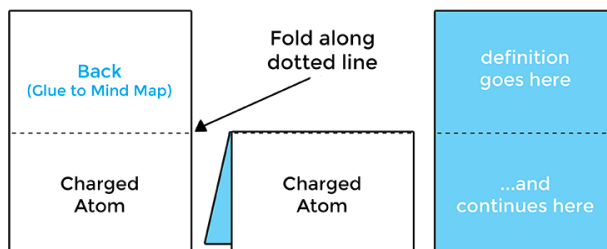
# MOSA MACK SCIENCE

## STUDENT GUIDE

### II. Vocabulary Activity

Note: Your teacher will tell you whether you will complete this activity [online here](#), or offline by following the instructions below.

1. Using the materials at your table, cut out your vocabulary cards along the **solid lines**. Note: Do not cut at the dotted lines.



2. Fold the cards at the dotted lines.

3. Write the definition of the term on the inside of the card using the definitions below.

4. Use the clues from the Mind Map images, definitions, and vocabulary terms to place the cards in the correct location in the Mind Map, explaining your thinking to group members as you go.



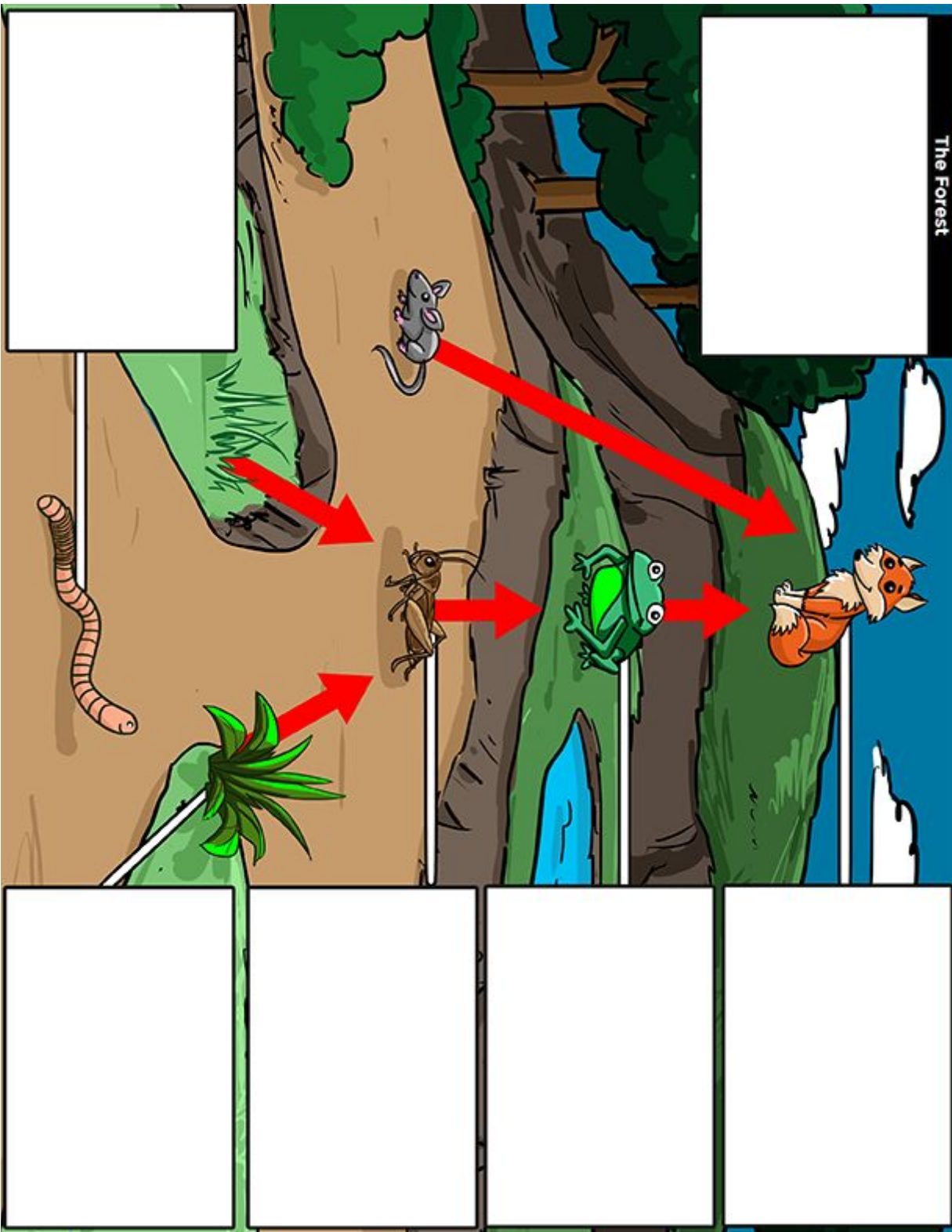
5. When you're ready to glue or tape, raise your hand so you can check your Mind Map with your teacher.
6. Use glue or double-sided tape to connect the back of the vocabulary card to the correct place on the Mind Map.



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## STUDENT GUIDE

### Mind Map





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## STUDENT GUIDE

|                  |           |                    |
|------------------|-----------|--------------------|
|                  |           |                    |
| Primary Consumer | Ecosystem | Decomposer         |
|                  |           |                    |
| Predator         | Producer  | Secondary Consumer |

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### Vocabulary

**Ecosystem:** All living and non-living things in a certain area.

**Secondary Consumer:** Eats, or consumes, the primary consumers.

**Predator:** An animal that kills and eats other animals.

**Producer:** Organism that converts energy from the sun to usable energy for plants through the production of glucose.

**Decomposer:** Eats, or consumes, dead plants and animals and turns them into nutrients in the soil, which plants use to grow.

**Primary Consumer:** Eats, or consumes, the producers.



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### III. Quiz: Check for Understanding

Complete the exit ticket below or you can take the quiz online!

**Name:** \_\_\_\_\_

**Date:** \_\_\_\_\_

1. The frog is a carnivorous predator. What does a carnivore eat?
  - a. Plants
  - b. Plants and animals
  - c. Animals
  - d. Fungi
2. Which of the following is not characteristic of primary consumers?
  - a. Primary consumers eat plants
  - b. Primary consumers eat animals
  - c. Primary consumers are low on the food webs
  - d. Primary consumers eat and get eaten
3. If the frog eats the grasshoppers, which direction would the arrow in a food web go?
  - a. Frog → Grasshoppers
  - b. Grasshoppers → Frog
4. What organism produces all the energy for the entire ecosystem by capturing energy from the sun?
  - a. Primary consumer
  - b. Secondary consumer
  - c. Decomposer
  - d. Producer
5. What organism produces all the nutrients that plants need?
  - a. Primary consumer
  - b. Secondary consumer
  - c. Decomposer
  - d. Producer
6. What organisms in a food web are essential for an ecosystem to thrive?
  - a. Consumers
  - b. Producers
  - c. Decomposers
  - d. All of the above