



Plant and Animal Structures Lesson 1: “The Solve” Student Handout

I. Vocabulary Warm-up

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.

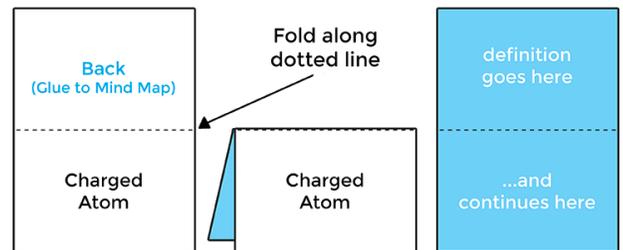
4. Use the clues from the Mind Map images, definitions, and vocabulary terms to place the cards in the correct location in the Mind Map, explaining your thinking to group members as you go.

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.

7. Use your completed Mind Map to discuss these questions with your group:

- a. Identify two plant structures that help a bean plant survive.
- b. What are two behaviors that can help rabbits survive from a fox attack?

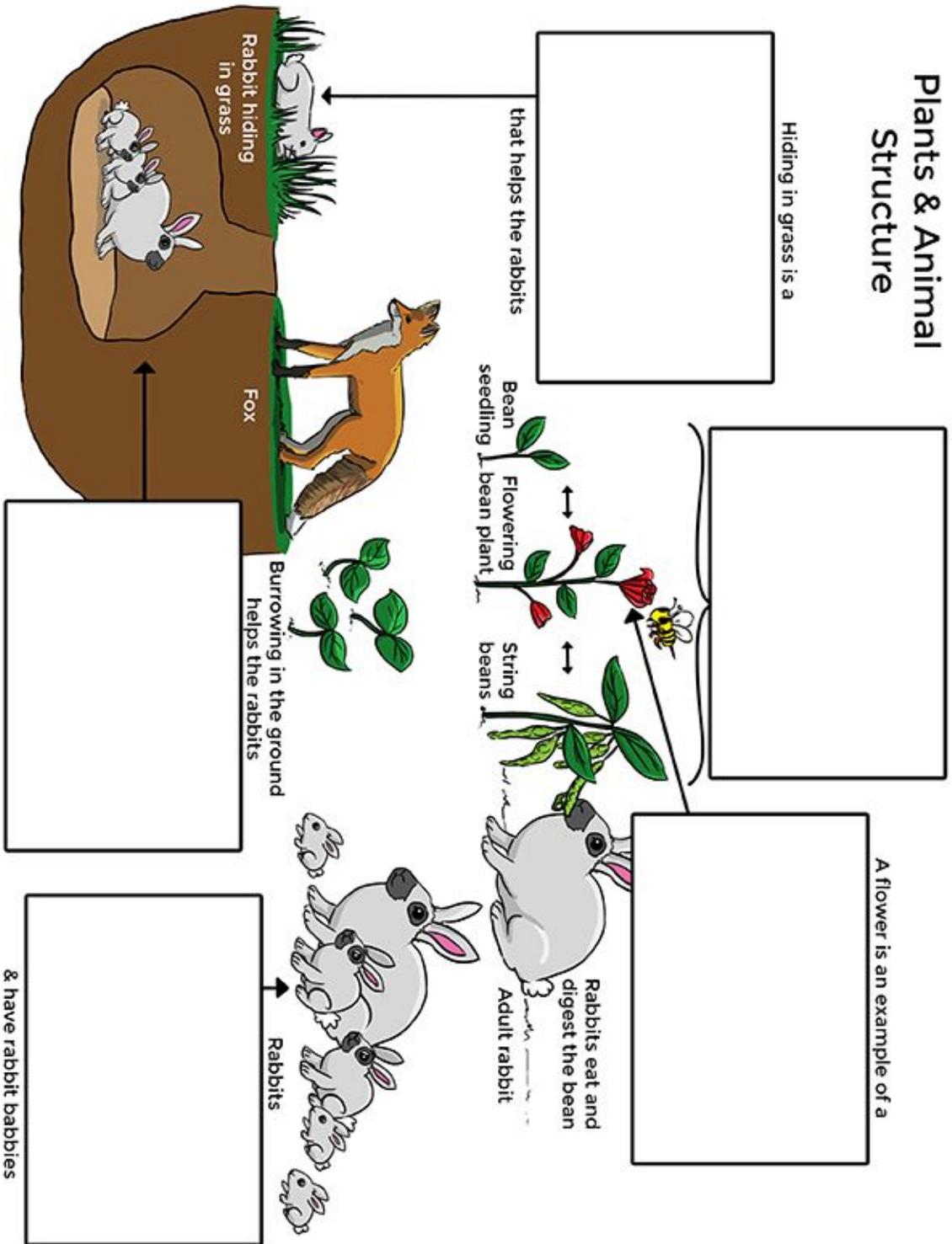




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Mind Map:





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Reproduce	Grow	Behavior
Structure	Survive	

Vocabulary

- **Grow:** To increase in size and shape over a period of time
- **Survive:** To continue to live or exist
- **Reproduce:** To produce new individuals of the same kind
- **Structure:** A part of an organism's body used to survive, grow or reproduce
- **Behavior:** The way in which an organism acts in response to a particular situation or stimulus



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II. Watch Mosa Mack.

Either on your own, in a small group or as a class (your teacher will let you know), read Mosa Mack's comic on Plant & Animal Structures. Then, fill out the questions below. Include a page number in your answer as evidence of where you found your answer.

Name: _____

Date: _____

Episode Questions

1. Why is the council representative trying to move the giraffes?
2. Why does the council representative believe that the giraffes are killing the trees?
3. What parts of the body does the giraffe use to eat the Acacia trees?
4. How does the Acacia tree get water?
5. Explain how the leaves of the Acacia tree help the tree to survive.



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6. What structures on the Acacia tree help protect it from other animals?
7. Explain how a giraffe's tongue helps it successfully feed from the Acacia tree.
8. Mosa and her crew observed black specks inside of the the giraffe stomach. What were these black specks?
9. What did Mosa figure out? How do giraffes help the Acacia tree survive?



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III. Exit Ticket: Check for Understanding

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

Name: _____

Date: _____

1. All living things have structures that help them:
 - a. Reproduce
 - b. Grow
 - c. Survive
 - d. All of the above

2. Which characteristic helps the giraffe to blend in with its environment:
 - a. 4 stomachs
 - b. Long neck
 - c. Spots
 - d. Muscular Tongue

3. Which of the following is true of Acacia tree roots?
 - a. Acacia tree roots grow deep into the soil to help absorb water for the tree and to help anchor the tree into the ground.
 - b. Acacia tree roots have root hairs that control the temperature of the plant.
 - c. Acacia tree roots absorb sunlight for the plant to make food.
 - d. Acacia tree roots help to protect and spread the seeds of the tree.

4. Which of the following elements is NOT essential for the Acacia plant to survive:
 - a. Sunlight
 - b. Wind
 - c. Thorns
 - d. Water

5. Giraffes can feed from the Acacia tree which is covered in long, spiky thorns due to what key structure?
 - a. Spotted fur
 - b. Long legs
 - c. Four chambered stomach
 - d. Muscular, bendy tongue



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6. True or false: Plants and Animals can rely on each other for survival.
7. When a turtle is being attacked, it tucks its head, arms and limbs into its shell. This behavior is a form of _____ which helps it _____.
- Reproduce, communicate
 - Defense, survive
 - Reproduce, grow
 - Fun, eat