

# **Internal and External Structures of Plants and Animals**

3.LS1: From Molecules to Organisms: Structures and Processes

- 1) Analyze the internal and external structures that aquatic and land animals and plants have to support survival, growth, behavior, and reproduction.

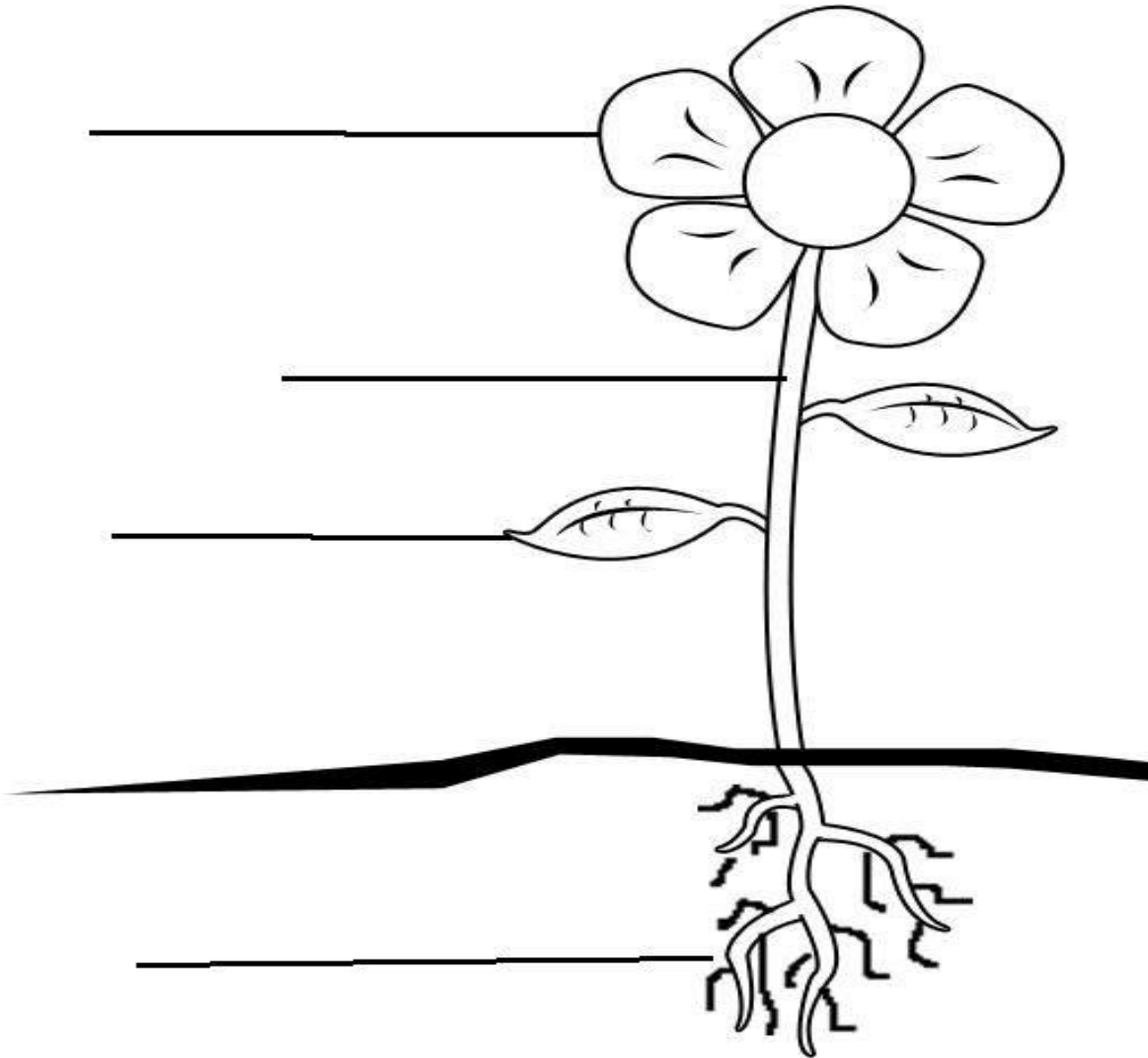
**Explain**

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

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

**#** \_\_\_\_\_

1. Label the parts of the plant.



The \_\_\_\_\_ attracts pollinators and make seeds that will someday grow into new plants.

The \_\_\_\_\_ supports the plant and carries water, nutrients, and plant chemicals up and down to all parts of the plant.

The \_\_\_\_\_ have little openings that let air and water come and go. They also catch energy from sunlight and use it to turn the air and water into food.

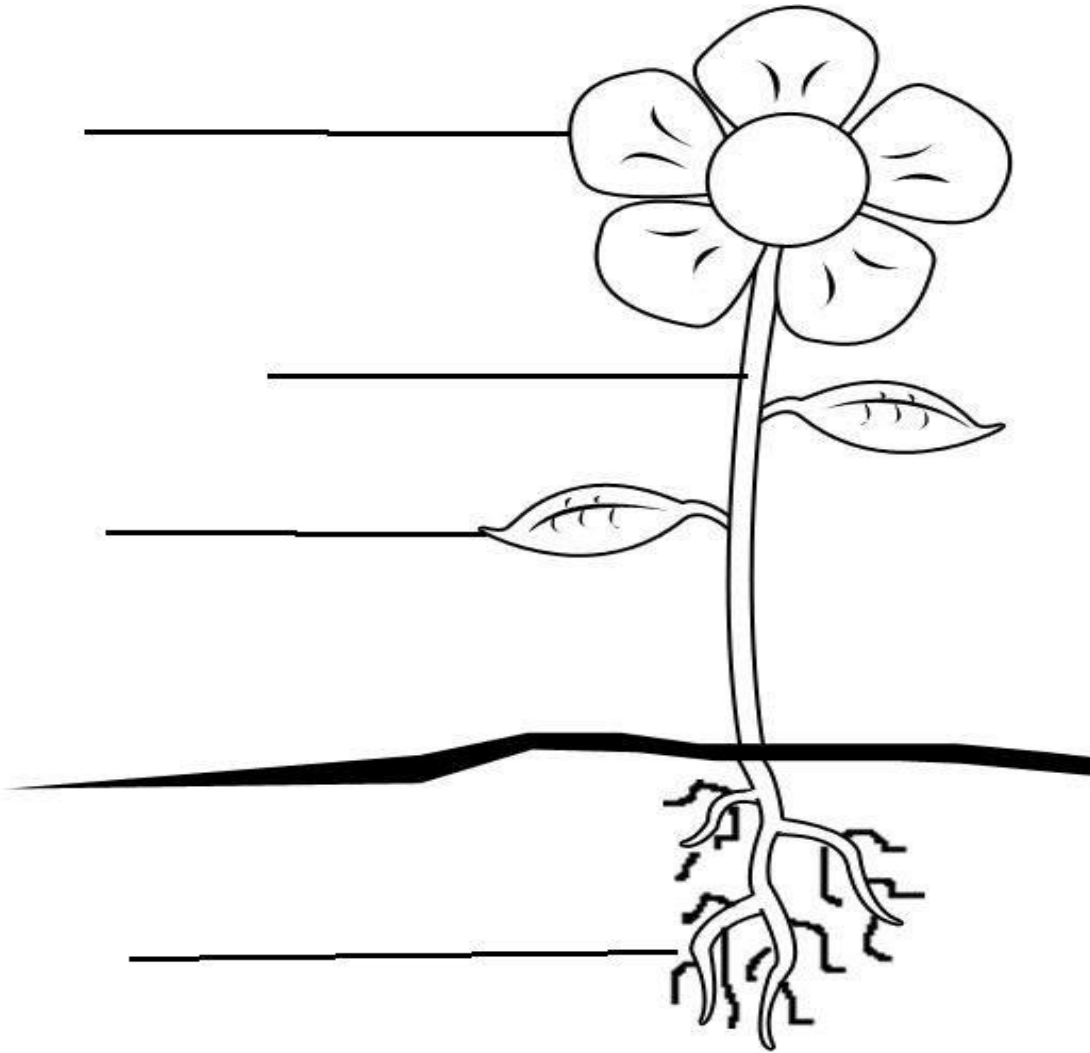
The \_\_\_\_\_ are hidden underground, but are very important to the plant. They also suck up water and nutrients from the soil and even store food for the future.

Name: **Answer Key**

Date \_\_\_\_\_

# \_\_\_\_\_

1. Label the parts of the plant.



The **Flower** attracts pollinators and make seeds that will someday grow into new plants.

The **Stem** supports the plant and carries water, nutrients, and plant chemicals up and down to all parts of the plant.

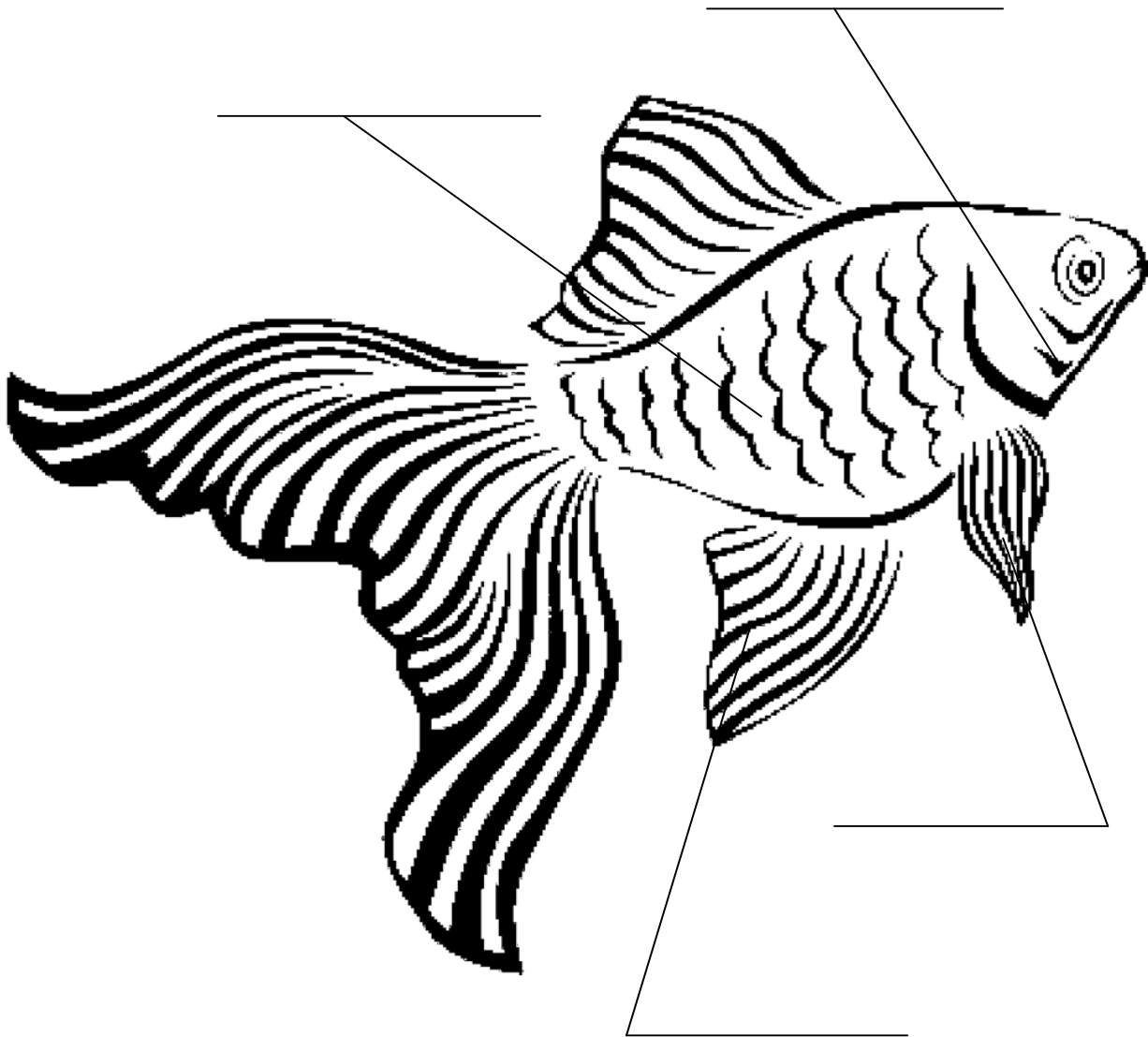
The **Leaves** have little openings that let air and water come and go. They also catch energy from sunlight and use it to turn the air and water into food.

The **Roots** are hidden underground, but are very important to the plant. They also suck up water and nutrients from the soil and even store food for the future.

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

Using the words in the box, label the structures on the fish below.

scale      gills      fin

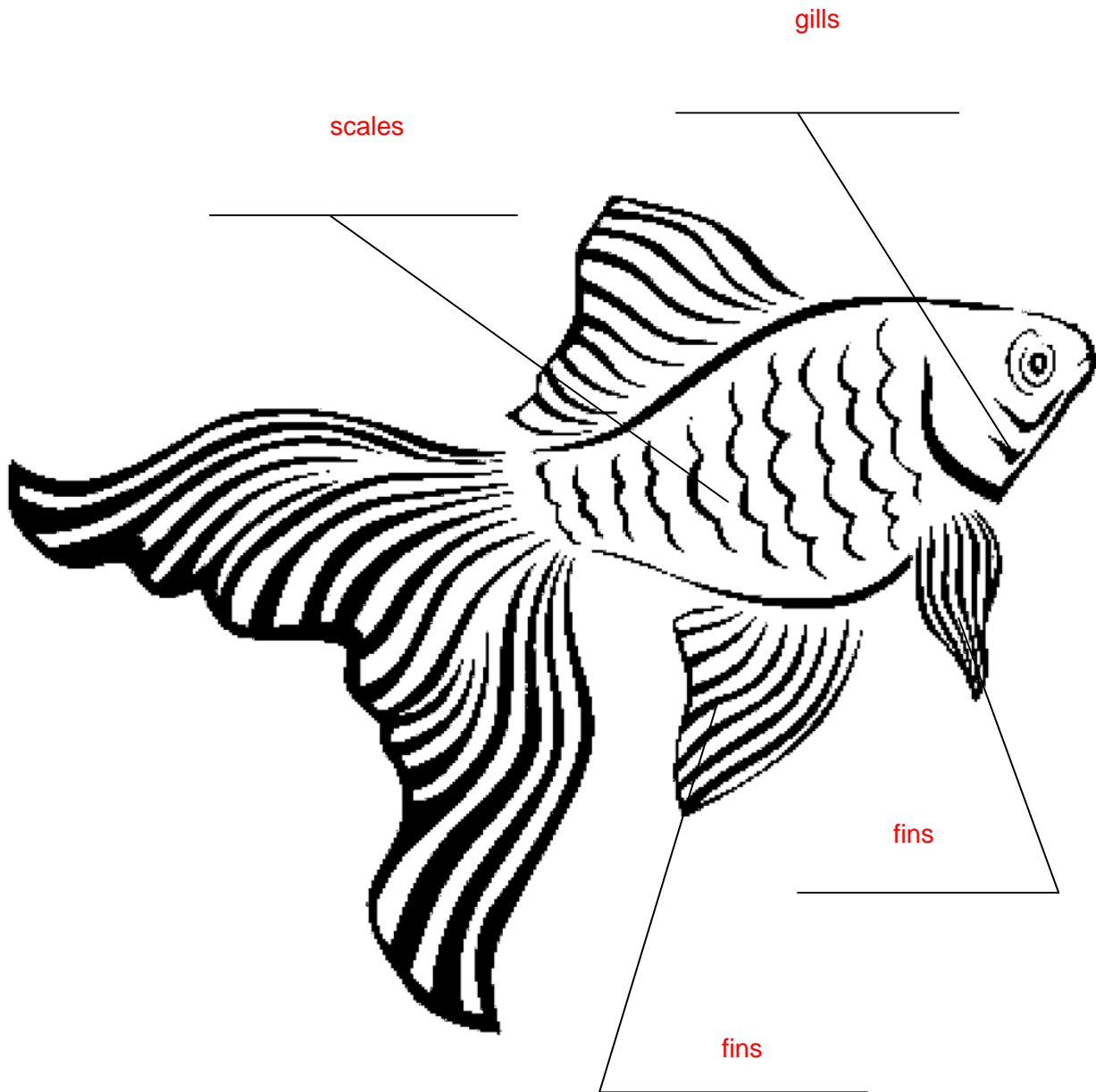


# Answer Key

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

Using the words in the box, label the structures on the fish below.

scale    gills    fin



# **Explore**

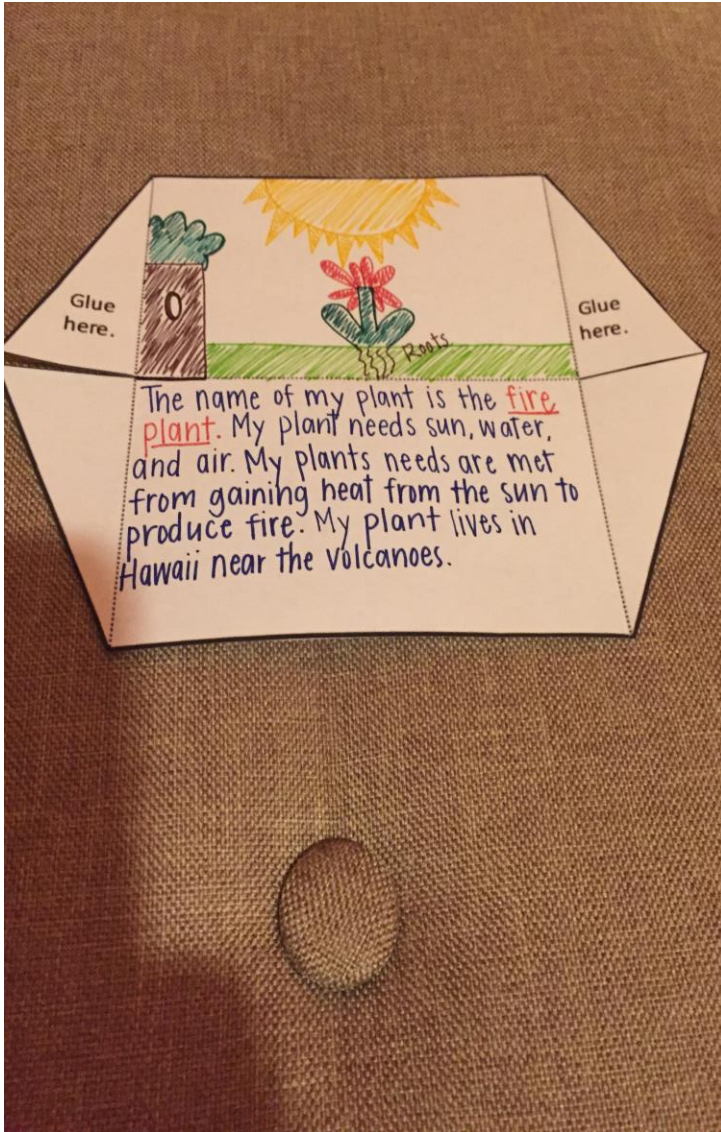
## **Student Instructions**

I will begin my lesson by explaining to the students that they will be engaging in an activity where they get to create their own plant or animal. The students will have previously learned about plant and animal internal and external structures that are necessary for their survival, growth, behavior, and reproduction.

Next, I will ask the students to separate in the room based on their preference of plant or animal. After they are separated I will explain to each group what their activity will consist of. I will then hand out the “Create-a-Plant worksheet to the first group and the “Create-an-Animal worksheet to the second group.

Materials: Diorama Sheet, Create Worksheet, Crayons, Pencil, Imagination  
Completing the Activity Photos:





Glue  
here.

0

Glue  
here.

Roots

The name of my plant is the fire  
plant. My plant needs sun, water,  
and air. My plants needs are met  
from gaining heat from the sun to  
produce fire. My plant lives in  
Hawaii near the volcanoes.



The name of my plant is the fire plant. My plant needs sun, water, and air. My plants needs are met from gaining heat from the sun to produce fire. My plant lives in Hawaii near the volcanoes.

### Create-a-Plant

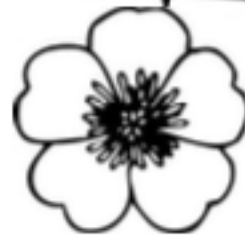


You are a botanist who has just discovered a new type of plant. As every good scientist does, you will document your exciting finding. Design a fact sheet highlighting your new plant discovery. Be sure to include the following key pieces of information:

- your plant's name
- your plant's basic needs
- how your plant's needs are met
- where your plant lives
- a colored illustration of your plant in its natural habitat

Your fact sheet might have text features like labels, captions, maps, bold words, subheadings, and more.

## Create-a-Plant



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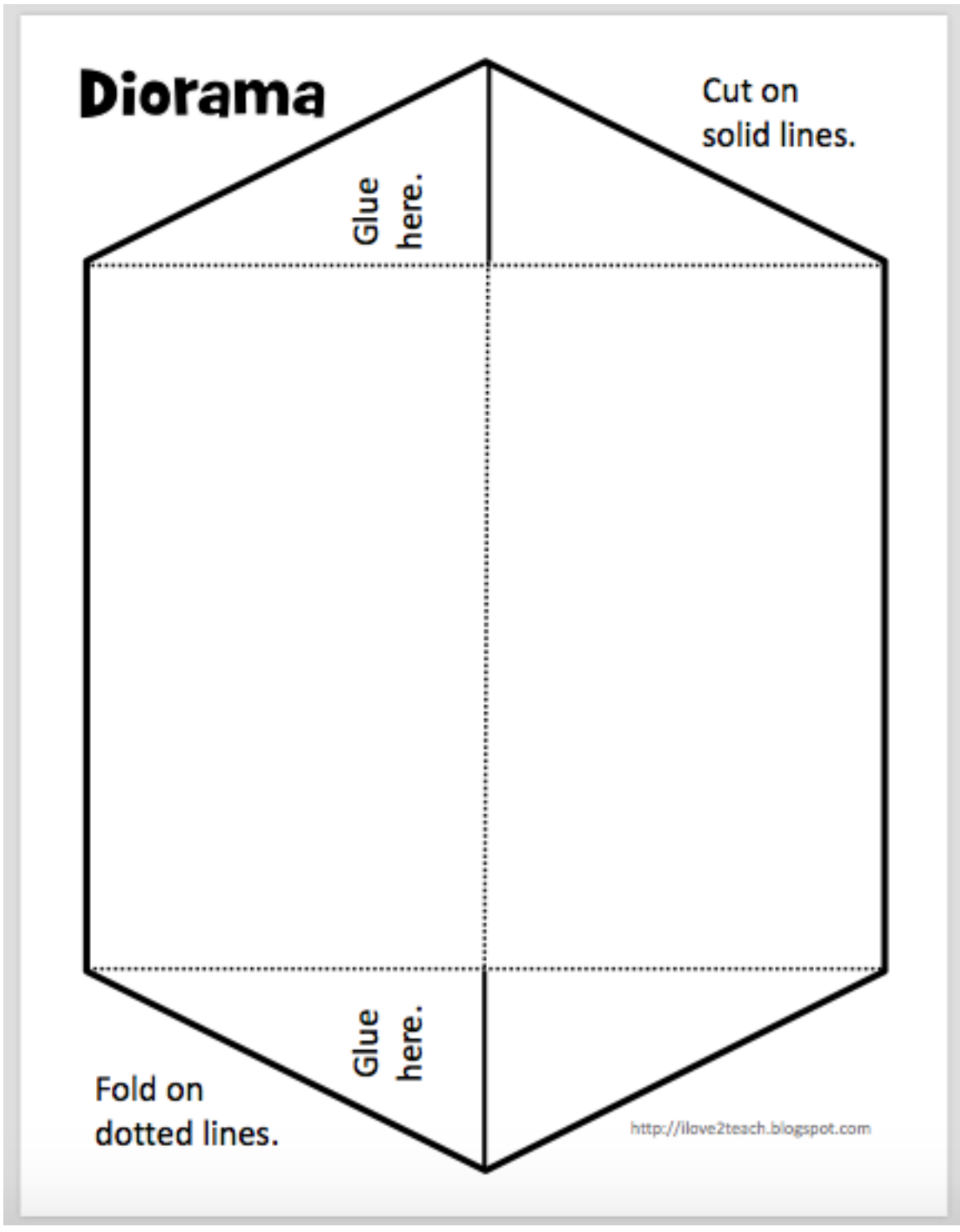
# Create-an-Animal



You are a zoologist who has just discovered a new animal species. As every good scientist does, you will document your exciting finding. Design a fact sheet highlighting this new animal discovery. Be sure to include the following key pieces of information:

- your animal's name
- your animal's basic needs
- how your animal's needs are met
- where your animal lives
- a colored illustration of your animal in its natural habitat

Your fact sheet might have text features like labels, captions, maps, bold words, subheadings, and more.



Kinney, B. (2011, October 30). Create-an-Animal & Create-a-Plant {freebie}. Retrieved March 22, 2017, from <http://ilove2teach.blogspot.com/2011/10/create-animal-create-plant-freebie.html>

# Internal and External Structures of Plants and Animals

I chose: \_\_\_\_\_

Internal Structures:

External Structures:

How does the plant or animal  
support Survival, Growth, Behavior,  
and Reproduction? Explain each.

## Answer Key

Internal and External Structures of Plants and Animals	
I chose: <u>Animals</u>	
Internal Structures:	<ul style="list-style-type: none"><li>• Digestive System (Growth)</li><li>• Circulatory System</li><li>• Brain (Avoid Danger)</li><li>• Muscles</li></ul>
External Structures:	<ul style="list-style-type: none"><li>• Air, Water, Food</li><li>• Legs</li><li>• Tail</li></ul>
How does the plant or animal support Survival, Growth, Behavior, and Reproduction? Explain each.	<ul style="list-style-type: none"><li>• Survival: air, water</li><li>• Growth: eating nutritious foods</li><li>• Behavior: follows instinct</li><li>• Reproduction: sexual reproduction</li></ul>

# Internal and External Structures of Plants and Animal CER

**Claim:** (Write a sentence or two stating what your organism needs to support survival, growth, behavior, or reproduction.)

**Evidence:** (Provide evidence from the chart to support your claim. Give an example of one internal structure and one external structure of your organism and explain how they help the organism survive.)

**Reasoning:** (Explain how your evidence supports your claim. Describe how your organism and your shoulder partners' organism have similar internal or external structures.)



# Internal and External Structures of Plants and Animal CER

**Claim: (Write a sentence or two stating what your organism needs to support survival, growth, behavior, or reproduction.)**

My organism needs water to be able to survive as well as grow. My organism reproduces sexually. To behave with other animals my organism follows its instinct.

**Evidence: (Provide evidence from the chart to support your claim. Give an example of one internal structure and one external structure of your organism and explain how they help the organism survive.)**

My organism needs a digestive system as an internal structure to help them grow, as well as strong legs as an external structure to help them run from predators.

**Reasoning: (Explain how your evidence supports your claim. Describe how your organism and your shoulder partners' organism have similar internal or external structures.)**

Both mine and my partners' organism need air to survive as well as strong legs.