

# VIVA AFRICA

## African Adventure Work Book

Interactions and Ecosystems

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



Hello, and welcome to your first **African Adventure**. Throughout the next few weeks, we will be exploring Africa and learning as much as we can. You will record all of your findings in this work book. Each week you will be given a new challenge and new pages to add to this booklet.

**Week 1:** Go with the flow.... of energy and materials within an ecosystem

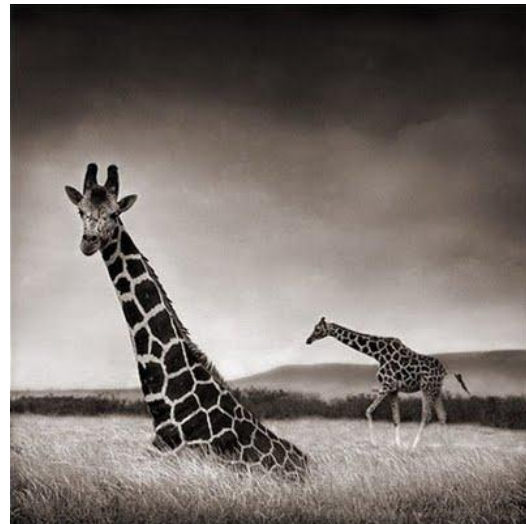
**Week 2:** Humans and their environments

**Week 3:** Dare to Compare....environments

**Week 4:** Get a life! .... Maintaining life supporting environments

Week one moves fast, so “go with the flow”. This week we will be tracking the flow of energy and materials within an African ecosystem. Throughout the week check back to this page to see how you are doing on your “I can...” statements!

I Can...	M	T	W	Th	F
Define <b>biotic</b> and <b>abiotic</b> components					
Organize ecosystems into <b>producers</b> , <b>consumers</b> , and <b>decomposers</b>					
Define and give African examples of <b>herbivores</b> , <b>carnivores</b> and <b>omnivores</b>					
Define and give African examples of <b>predators</b> and <b>prey</b>					
Describe and give examples of <b>energy</b> and <b>nutrient storage</b> in plants and animals					
Explain how <b>matter is recycled</b> in an ecosystem					
Explain how <b>carbon</b> and <b>water cycle</b> through an ecosystem					
<b>Reflect</b> on what I have learned and write about it					
<b>Discuss</b> what I have learned with a partner and group					
Remember a lot of cool facts about <b>AFRICA!</b>					



# KWL CHART

Viva Africa! We are learning about Africa for the next few weeks, so buckle your seat belt, put on your safari hat and get ready for an adventure! Before we begin, let's see what you already know, and what you want to learn. Fill in the first two sections of the KWL chart and come back to the "Learn" section throughout our adventure to show what you have learned.



What I already <b>know</b> about Africa and its ecosystems...	What I <b>want to learn</b> about Africa and its ecosystems....	What I have <b>learned</b> about Africa and its ecosystems...

# Biotic and Abiotic Elements of African Ecosystems

Biotic:

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Abiotic:

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Biotic	Abiotic

\*\* I can... define abiotic and biotic components of an ecosystem and give examples



# You're on a Role....

Find out the roles of organisms in an Ecosystem. Every plant and animal in an ecosystem has a role to play. These roles are known as a niche. One organism usually fills several niches.

Match the each word to its correct definition, there are more definitions than words, so choose carefully! Put the correct definition number beside each word.

Number	Word
	Scavengers
	Carnivores
	Herbivores
	Omnivores
	Producers
	Decomposers

## Definition Bank

- 1) An animal that eats other animals
- 2) Organisms that break down the cells of decay or waste materials and absorb their nutrients
- 3) An animal that eats other animals and plant material
- 4) An animal that eats only decomposers
- 5) An organism that eats dead or decaying plant or animal matter
- 6) Plants that use energy from the Sun to make nutrients they need to survive
- 7) An animal that eats only plant material

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Now that you know the categories, your task is to choose any organism from an African ecosystem and do some research! Use the templates at your table to create a trading card for your organism. Hint: use this website for some great research <http://www.awf.org/section/wildlife/gallery>



# Dagomba Dance – Wii

... You have been challenged to a dance-off competition! Work with your team to get the highest score in the class for the Dagomba Dance. Everyone in your group must get equal playing time. Every 20 seconds rotate your group members so each person gets an equal chance with the remote. All members can be dancing at the same time, even if they do not have a remote.

Score: \_\_\_\_\_

## Quick Fact...

The Dagomba are an ethnic group of Northern Ghana.



Dagomba People YouTube Clip: [http://www.youtube.com/watch?v=NAoW\\_8RD9QM](http://www.youtube.com/watch?v=NAoW_8RD9QM)

Watch the YouTube clip of the Dagomba people.

How was this movie clip different than the dance we just did?  
Are they different? If so why do you think the game creators did it that way?

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