Life Story: IN THE BEGINNING...

()

1. Roll the Dice TWICE to determine which trophic level your organism will occupy.

*High		

Sum of Dice	2	3	4	5	6	7	8	9	10	11	12
Trophic Level		Prima	ry Con	sumer		Sec	ondary	Consun	ner	Tertiary C	onsumer

2. Define the <u>function of organisms</u> that occupy your **trophic level**:

Your Trophic Level:	
Research a definition of your trophic level:	

3. Now, you will begin to **Design Your Organism!**

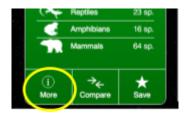
First, Choose your home biome.

Watch the video below, then follow the instructions that follow.



Instructions

- 1. Use the **BiomeViewer** to investigate different biomes.
- 2. Click on the 'More' button to learn more about the biome that is most interesting to you.



Choose a Biome for your Organism to live in and Complete the table below:

Name of Biome:	
Where It's Found?	
What it Looks Like and Feels Like?	
What Grows?	
Number of MAMMAL species	
Number of AMPHIBIAN species	
Number of REPTILE species	

4. Follow your heart... Choose which life plan you will follow:

*Highlight your selection

Mammal	Amphibian	REPTILE	Bird
--------	-----------	---------	------

5. <u>Using your results from the beginning of the assignment</u>: Click the link that corresponds to **your Trophic Level** and *answer the list of questions to design your organism's traits.*

Primary Consumer	Secondary Consumer	Tertiary Consumer

You only need to complete the section that corresponds to your trophic level.

Primary Consumer

1.	Food : Since your organism is an <u>herbivore</u> , you need to consume a LOT of food !						
	Explain what type of food your organism was Also, explain a <u>trait</u> your organism was		•	•			
2.	Defense : Remember that you are the PREY of a predator in your biome.						
	Explain how your species v	If so it can <u>eat in safety</u> .					
3.	Environment : Explain how your organarise in your biome.	nism will survi	ve the extreme environm	nental conditions that			
4.	Reproduction : As a Primary Consume species gets attacked often so your species	-	onstantly avoid predators	. Unfortunately, your			
	take <u>extreme</u> care of your babies - or -	- have a LOT of	babies at once -or- have	babies often			
	in order to keep yo	our <u>population</u> a	live.				
	Describe how your organism will reprodu	uce and parent	the offspring to keep the	population stable.			
5.	Create 5 traits and assign alleles that follow survive and reproduce in your biome.	v the pattern of	Complete Dominance, th	nat will help your species			
	Name of Trait	Allele Letters	Dominant Phenotype	Recessive Phenotype			
				<u> </u>			

6. Create 2 traits and assign alleles that follow **Incomplete Dominance** Inheritance, that will help your species *survive* and *reproduce* in your biome.

Name of Trait	Allele Letters	Homozygous Dominant Phenotype	Homozygous Recessive Phenotype	Heterozygous Phenotype

7. Create **2** traits and assign alleles that follow **Co-dominance** Inheritance, that will help your species *survive* and *reproduce* in your biome.

Name of Trait	Allele Letters	Homozygous Dominant Phenotype	Homozygous Recessive Phenotype	Heterozygous Phenotype

8. Transfer the information from this assignment into the <u>Life Story gSlide SciNB</u> (slides 5-10):

Make a copy of the gSlides to start your own Field Notes for your organism

Life Story gSlide SciNB

Secondary Consumer

1.	. Food : As a secondary consumer your organism is a <i>carnivore</i> , <i>omnivore</i> , or <i>scavenger</i> .						
	Explain what type of food your orga	anism will cons	ume so they can grow, su	rvive, and reproduce.			
2.	Hunting: Explain how your species will get their food from hunting or scavenging.						
3.	Defense: Remember that you are the PREY of a predator in your biome.						
	Explain how your species will defend itself so it can eat in safety.						
4.	Environment : Explain how your organarise in your biome.	nism will surviv	e the extreme environm	nental conditions that			
5.	Reproduction : As a Secondary Consu is always on alert to avoid being attacked b	•		nt for food. Your species			
	take <u>extreme</u> care of your babies - or -	have a LOT of	babies at once -or- have	babies often			
	in order to keep yo	ur <u>population</u> a	live.				
	Describe how your organism will repro	oduce and pare	nt their offspring to keep	the population stable.			
6.	Create 5 traits and assign alleles that follow the pattern of Complete Dominance , that will help your species survive and reproduce in your biome.						
	Name of Trait	Allele Letters	Dominant Phenotype	Recessive Phenotype			

7.	Create 2 more traits and assign alleles that follow Incomplete Dominance Inheritance, that will help y	our/
	species survive and reproduce in your biome.	

Name of Trait	Allele Letters	Homozygous Dominant Phenotype	Homozygous Recessive Phenotype	Heterozygous Phenotype

8. Create **2** more traits and assign alleles that follow **Co-dominance** Inheritance, that will help your species *survive* and *reproduce* in your biome.

Name of Trait	Allele Letters	Homozygous Dominant Phenotype	Homozygous Recessive Phenotype	Heterozygous Phenotype

9. Transfer the information from this assignment into the Life Story gSlide SciNB (slides 5-10):

Make a copy of the gSlides to start your own Field Notes for your organism

Life Story gSlide SciNB

Tertiary Consumer

1.	Food : As a tertiary consumer your organism is a top predator.					
	as a Top Predator, you must be: a master at hunting larger animals OR genius at capturing LOTS of really small animals.					
	Explain what type of food your organism will consume so they can grow, survive, and reproduce.					
2.	Hunting : As a Top Predator, you must be of really small animals.	e a <u>master at hu</u>	<u>nting</u> larger animals or ge	nius at capturing LOTS		
	Describe how your species will get their food from hunting.					
3.	Environment : Explain how your organism will survive the extreme environmental conditions that arise in your biome.					
4.	Reproduction: As a Tertiary Consumer and Top Predator, you do not have enough energy to have a lot of babies. If you have too many babies, they will compete for your food and space resources. Describe how your organism will reproduce and parent the offspring to keep the population stable.					
 Create 5 traits and assign alleles that follow the pattern of <u>Complete Dominance</u>, that will help survive and reproduce in your biome. 				at will help your species		
	Name of Trait	Allele Letters	Dominant Phenotype	Recessive Phenotype		

6. Create 2 more traits and assign alleles that follow **Incomplete Dominance** Inheritance, that will help your species *survive* and *reproduce* in your biome.

Name of Trait	Allele Letters	Homozygous Dominant Phenotype	Homozygous Recessive Phenotype	Heterozygous Phenotype

7. Create 2 more traits and assign alleles that follow **Co-dominance** Inheritance, that will help your species *survive* and *reproduce* in your biome.

Name of Trait	Allele Letters	Homozygous Dominant Phenotype	Homozygous Recessive Phenotype	Heterozygous Phenotype

10. Transfer the information from this assignment into the Life Story gSlide SciNB (slides 5-10):

Make a copy of the gSlides to start your own Field Notes for your organism

Life Story gSlide SciNB