

Foodwebs Stop Motion Animation
(Using Knowledge/ Processing and Evaluating)

Objective:

For individual students to show the progression of energy and nutrients through your ecosystem and back to the primary producer in a stop motion animation video.

Procedure:

1. Begin with the food web for the Ecosystem you group modeled.
2. Identify the primary producer and apex predator you would like to link in your video.
3. Choose a unique path from your primary producer to your apex predator, and a detritus pathway from apex predator back to your primary producer. **This is an individual video and your chain should be different from that of your peers.**
4. Create a unique animation that progresses nutrients and energy from the sun (or volcano) through your producer, three tiers of consumer (including an apex predator), and back through a detritus pathway back to the primary producer.
5. Video should include: **original images and names of all species, clear indications of the habits and niches of species, predator-prey relationships, and clear tracking of nutrients and energy throughout the video**

Food Chain Stop-Motion		Stellar	Good	Good Enough	Not Good Enough	You made Mickey Mouse cry.
Rubric (30pts)		5	4	3	2	1
Using Knowledge	Primary Producer	A clear and accurate primary produce is included with-in its ecological niche. The sources of energy for the producer is clear and accurate	An accurate primary producer is included with-in the ecosystem. The sources of energy for the producer is accurate	An accurate primary producer is included with-in the ecosystem.	A primary producer is included with-in the ecosystem.	Primary producer in present
	Consumers	Clearly and accurately shows the progression of energy through three tiers of unique consumers, including a clear Apex predator. All consumers are shown within their ecological niches	Accurately shows the progression of energy through three tiers of consumers, including a clear Apex predator.	shows three tiers of consumers, including a clear Apex predator.	Shows less than three tiers of consumers	Consumers are present
	Decomposers and Detritivovers	Video shows a clear and accurate Dritius pathway showing how nutrients cycle back to the primary producer, including at least one each: scavenger, detritivores, and decomposer with-in their ecological niches.	Video shows an accurate Dritius pathway showing how nutrients cycle back to the primary producer, including at least 2 of 3: scavenger, detritivores, and decomposer with-in their ecological niches.	Video shows an accurate Dritius pathway showing how nutrients cycle back to the primary producer	Video shows a pathway showing how nutrients cycle back to the primary producer	Scavenger or Decomposer or Detritivore is present
Using Knowledge						/15

P r o c e s s i n g a n d E v a l u a t i n g	Food Chain	Energy and nutrients clearly, and accurately progress throughout the chain from the primary producer to the apex predator and back	Energy and nutrients accurately progress throughout the chain from the primary producer to the apex predator and back	Energy and nutrients progress throughout the chain from the primary producer to the apex predator and back	Energy and nutrients progress throughout the chain from the primary producer to the apex predator	There is a flow of energy shown
	Ecosystem	The Ecosystem is clearly, consistently, and accurately included within the entire progression of the video. Ecosystem clearly includes: 1) The name and location of the ecosystem, 2) Habit or niche of every species, 3) role the environment plays in the Herbivory or predatory relationships, and 4) where detritus exists in the ecosystem	The Ecosystem is clearly and accurately included within the video. All four elements of the ecosystem are present	The environment is accurately included within the video. 2/4 elements are included	Environment is included in within the video	Species exist outside of a environment with-in the video
	Creativity	Animation is creative, clean, and unique. The transition between tiers is very smooth	Animation is creative and clean. The transition between tiers is smooth	Animation is clean. There is a clear effort to make the transition between tiers smooth	Animation is choppy or transitions are not smooth	The process is animated
	Processing and Evaluating					/15

Up to Five points extra credit sound/music of voice over based on creativity and enhancement of the video