Subject/Grade: Grade 7/8 Science Lesson Title: Producers, Consumers, & Decomposers Teacher: Chandra Wassill			
Stage 1: Identify Desired Results			
Established Goals: (Learning outcome/s & indicator/s from curriculum)			
IE7.2 Observe, illustrate, and analyze living organisms within local ecosystems as part of interconnected food webs, populations, and communities.			
i. Classify organisms in a variety of ecosystems as producers, consumers, or decomposers and further classify consumers as herbivores, carnivores, or omnivores.			
<b>Understandings:</b> (can also be written as 'I Can' statements) Students will understand	U	Essential Questions:	
The definition of producer, consumers, and decomposers	food webs, populations, and communities are interconnected. definition of producer, consumers, and decomposers. consumers can be herbivores, carnivores, or omnivores.		
Students will know K	Students will be able to		
Organisms, ecosystems, food webs, populations, communities, producers, consumers, decomposers, herbivores, carnivores, omnivores	Classify organisms as producers, consumers, or decomposers. Classify consumers as herbivores, carnivores, or omnivores. Observe and analyze food webs, populations, and communities within ecosystems.		
Stage 2: Determine Evidence for Assessing Learning			
Formative assessment: Student responses, verbal and written, exit activity			
Stage 3: Build Learning Plan			
Instructional Strategies: Video, response sheets, whole class discussion.			

Set (Engagement): What did we learn last time? Length of Time: 2 mins	Materials/Resources:	
Ask students for three ideas that they learned about in the last science lesson. Quick verbal review.	<u>Bill Nye Food Web</u> video Lesson <u>worksheet</u> Bill Nye Video <u>Answers</u>	
<b>Development:</b> Learning how to classify organisms <b>Time:</b> 45 mins	Slide presentation	
Watch this <u>Bill Nye Food Web</u> video and respond to questions while watching. Review the answers for the sheet		
Define producers, consumers, and decomposers (organizer) <u>Producers</u> - can make their own food and energy. Plants are producers. They make their own energy from photosynthesis.	Possible Adaptations/ Differentiation:	
<u>Consumers</u> - an organism that has to eat, or consume, other living things for food. All animals are consumers. <u>Herbivores</u> - consume plants as food. <u>Carnivores</u> - consume other animals as food. <u>Omnivores</u> - consume both other animals and plants as foods.	Instead of whole class discussion, could work in small groups Have students respond using online tools instead of verbal responses Create subtitles for the video	
Decomposers - are a type of consumer that break down dead plants and animals and animal waste. Put nutrients back into the soil	Provide access to a script of the video to allow students to have the information from the video in front of them if needed.	
Let's classify the following living organism from the Bill Nye video as either producers, consumers, or decomposers: cows, chicken, earthworms, wheat, tuna, people, apple tree, fungi		
How would we classify these aliens? Jot down key answers on board	Management Strategies:	
Florp: Florp gains energy from the purple alien sun. Florp uses the sun to create food and grow	Moving around the classroom Worksheets to promote attention during video	
Squil: Squil gets energy from eating Florps. Squil also eats little aliens life forms that are similar to the butterflies on planet earth		
<u>Gart:</u> Gart has to eat 10x their body size. To acquire this energy, Gart consumes Squils	Safety Considerations:	
Phil: Once the other aliens die, Phil breaks them down for energy. Phil has the important job of breaking the alien organisms down into nutrients		
Closure: Alien Food Web Time: 5 mins		
Work together as a class to organize the aliens into a food web.		

## Stage 4: Reflection

-Bill Nye went great, I think the worksheet went well and helped focus

-Aliens went way better than I thought it would; the students loved them and really understood the ideas

-Lesson went well, they were engaged,

-Some students tried to get me off track, but I kept sneaking the curriculum back into my answers

-Lots of movement during the lesson

-Great participation from students

-The students got excited and noisy! Lots of great thinking and fun!