Name:	Class Period:
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	S7L4 a&c: Interactions of Life

Start Date: February 27, 2018 End Date: March 16, 2018

Direct Instruction	DOK 2-	DOK 3-	DOK 4 -
Pre-Assessment (Place score at the bottom of the sheet)	PI B - Must Do #1 and #2	PI C - Choose #1, #2 or #3	PI - Choose #1 or
and Self Assess	Predation or Starvation Activity	1. Create your own	<u>#2</u>
Student notes for Direct Instruction:	https://www.biologycorner.com/worksheets/predator_prey_graphing.html	assignment related to	1. Create your own
Complete Must Do and		impact on population	assignment. MUST
•	2. Create a foldable or visual on the Levels of Organization of the	changes, must include some	be teacher
MUST DO: Flashcards for Interactions of Life (Share with	Ecosystem - must include: Individual, Population, Community,	data collected, hypothesis	approved.
Teacher) OR Vocabulary Foldable or TIP Chart	Ecosystem. Include notes and illustrations	of changes to come, ways	
population, limiting factor, carrying		to possibly "fix" the	2. Research an
capacity, extinction, competition,	PI B - Choose #1, #2, or #3	environment so organisms	organism that is on
• •	1. Create your own assignment related to how populations change due to	are not lost. MUST be	the endangered
predator, prey, symbiosis, mutualism,	available resources. MUST be teacher approved.	teacher approved.	species list and
commensalism, parasitism, community,	2. Virtual Lab: Population Ecology		identify the food it
ecosystem, biosphere, biome.	https://www.biologycorner.com/worksheets/virtual_lab_population.html	2You have just been hired	eats, identify
	3. Lesson of the Kaibab -	by the Georgia Public	another organism
	https://www.biologycorner.com/worksheets/kaibab.html	Broadcasting System	that eats it, gather
		(GPBS) to work in the	data from the last
		Early Education Science	50 years about the
MUST DO: Take notes from the 9 Tabs in the	PI C - Must Do	Department. Your job is to	organism's
link below. You should have notes from each	Create a Flipbook that distinguishes between the different types of relationships	teach children about	population and the
of the tabs.	that occur in our environment. Include 2 examples of each type (not the example	producers, consumers and	predict when the
Eschool Today - Your Cool Facts and Tips on	we used in class).	decomposers. Think of	organism may
Ecosystems	(mutualism, commensalism, parasitism & predator/prey)	several examples of each.	become extinct
http://eschooltoday.com/ecosystems/scales-of-		Think about their	based on data
an-ecosystem.html	PI C - Choose #1, #2 or #3	relationships. Also, imagine	collected and what
	1. Create your own assignment related to mutualism, commensalism, parasitism	the different types of	might happen to th
Please use the following Nearpods as a	& predator/prey . MUST be teacher approved	symbiotic relationships.	food chain and foo
Resource:	2. Investigate .how organisms or populations may interact with one another	Using the examples, you	web should that
PIC - Predator Prey Relationships Nearpod	through symbiotic relationships and how some species have become so adapted	came up with, create a	organism become
Predator Prey Relationships	to each other that neither could survive without the other (e.g., predator-prey,	cartoon story that explores	extinct.
https://share.nearpod.com/7BkEqfSASK	parasitism, mutualism and commensalism).	the relationship between	
	3. Create a comic strip explaining the types of symbiotic relationships.	producers, consumers and	
		decomposers. Make sure	

https://share.nearpod.com/Zh2M3xxBSK predator. What is a soft this can your rational statement of the soft this can you retain the soft the soft this can you retain the soft the soft this can you retain the soft the soft the soft this can you retain the soft the	ships and deprey relationships. your interpretation artoon? Support ionale.	CREDIT: Complete the following Webquest Webquest for
What is a of this ca your rational control of the care	your interpretation artoon? Support ionale.	following Webquest
What is so of this can your rational states of the states	artoon? Support ionale.	Webquest
your rati	ionale.	···
3. It is in	mportant to	Webguest for
3. It is in	mportant to	Wedquest for
		Interactions of Life
introduc	e the idea of	http://zunal.com/we
populati	on change, there	bquest.php?w=1625
	y reasons for	<u>92</u>
population	on change – limited	
resource	es, predator-prey	
cycles, h	numan impact,	
habitat c	change – to name	
but a fev	w. Students will	
graph po	opulation data and	
then use	their graphs to	
	one of the most	
	examples of	
	on change, the	
	-prey population	
	the snowshoe hare	
	Canada lynx. The	
	aken from the 300	
	orth of real data	
	d by trappers of the	
	Bay Company.	
	e data make some	
	ses about what	
	opulation change in	
	world. ***Use	
	tional worksheet to	
complete	e	

Pre-Assessment:	Post-Assessment:		
		Score:	
		Code.	
		See teacher for Access	
Score:	Score:	Assessment on Illuminate.	Score:
Vocabulary Quiz	DOK2 Formative Assessment on Illuminate. See teacher for Access Code.		Unit Assessment

Unit Competency: MS5 Life Science: Matter and Energy in Organisms and Ecosystems

Students will apply scientific and engineering practices to understand and analyze the characteristics, functions, and behavioral interactions within an ecosystem.

Performance Indicators:

- C. (4c)Analyze and interpret data to provide evidence for how resource availability, disease, climate, and human activity affect individual organisms, populations, communities, and ecosystems.
- B. (4a) Explain the patterns of relationships in different ecosystems (predator/prey, competition, mutualism, parasitism, and commensalism).

<u>Unit GSE Standards:</u> S7L4. Obtain, evaluate, and communicate information to examine the interdependence of organisms with one another and their environments. c. Analyze and interpret data to provide evidence for how resource availability, disease, climate, and human activity affect individual organisms, populations, communities, and ecosystems.

a. Construct an explanation for the patterns of interactions observed in different ecosystems in terms of the relationships among and between organisms and abiotic components of the ecosystem.

Learning Targets:

1. I can describe how changes to the predator/prey relationship affect an ecosystem 2. apply my knowledge and understanding of symbiotic relationships to real-world examples 3. infer that predators and prey are both important for an ecosystem based on data collected

Week of	Monday	Tuesday	Wednesday	Thursday	Friday	To Do:
2/26	2/26 No School	27 Pre-Assessment Data Analysis - Learner Profile	28 - PI B D/I DOK 2 - DOK 4	3/1 -PI B D/I DOK 2 Check-Up DOK 4	3/2 - PI B D/I- DOK2 Check-Up DOK 4	
3/5	5 - PI B D/I DOK 2 - Vocab Quiz /	6- PI B D/I DOK 3 - DOK 4	7-PI C D/I DOK 3 - DOK 4	8- PI C D/I DOK 3 - DOK 4 DOK 3 Check-Up	9 - PI C D/I DOK 3 DUE- DOK 4 DOK 3 Check-Up	

	3/12	12- PI C D/I DOK 1-3 Check- Up - DOK 4	13 - PI C Direct Instruction - DOK 3 Check-Up - DOK 4	14 - PI C Direct Instruction - DOK 3 - DOK 3 Check-Up - DOK 4	15 PI B & C- Post Assessment	16 <u>PIB & C</u> - Post Assessment		
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Direct Instruction/Whole Class

- Predator/Prey Card Game (wolves and deer what happens to the populations?)
- Gizmo (Prairie Ecosystem)

Resources:

https://www.youtube.com/watch?v=hly0ZlyPPDg&list=PLISBHwlJXpn2bmLjfiShKcIHpBPcov24O&index=5 - Intro to biomes

https://www.youtube.com/watch?v=E1pp_7-yTN4&list=PLpVSLnEyW17bKa2esIHEpr1YNkoQldBIc&index=3 - Abiotic and Biotic

https://www.youtube.com/watch?v=clfpKL0brwQ&index=5&list=PLpVSLnEyW17bKa2esIHEpr1YNkoQldBIc - Population Community Ecosystem

https://www.youtube.com/watch?v=zTGcS7vJqbs&index=2&list=PLpVSLnEyW17bKa2esIHEpr1YNkoQldBlc-Symbiosis and the property of th

https://www.youtube.com/watch?v=Q5VI4V24eNI&list=PLpVSLnEyW17bKa2esIHEpr1YNkoQIdBIc&index=4 - Habitats

Amoeba Sisters videos

https://www.youtube.com/watch?v=EtWknf1gzKo&list=PLwL0Myd7Dk1F0iQPGrjehze3eDpco1eVz&t=30s&index=3 - Levels of Organization

https://www.youtube.com/watch?v=-oVavgmveyY&list=PLwL0Myd7Dk1F0iQPGrjehze3eDpco1eVz&index=43 - Intro to Food Webs and Energy pyramids

https://www.youtube.com/watch?v=rNjPl84sApQ&index=44&list=PLwL0Myd7Dk1F0iQPGrjehze3eDpco1eVz - Ecological relationships

https://www.youtube.com/watch?v=NHqEthRCqQ4&list=PLwL0Myd7Dk1F0iQPGrjehze3eDpco1eVz&index=45 - Carbon and Nitrogen Cycles

Brain pop videos

https://www.brainpop.com/science/ecologyandbehavior/symbiosis/ - Symbiosis

https://www.brainpop.com/science/ecologyandbehavior/landbiomes/ - land biomes

https://www.brainpop.com/science/ecologyandbehavior/energypyramid/ - Energy Pyramid

https://www.brainpop.com/science/ecologyandbehavior/foodchains/ - food chains