

ECO2-Symbiosis/keystone species Lesson Plans

Teacher :JOHNSTON, HARDMAN, CANNON, HAWTHORNE, HAMILTON, CARMACK	
Course/ Subject: Biology	
Date of Instruction: 12/6/2022	
<p>Opening (I Do)</p> <p>An engaging process for lesson introduction that is specifically planned to encourage equitable and purposeful student participation. Describe the instructional process that will be used to introduce the lesson.</p> <p>TKES 1, 2, 3,4,5, 8,10</p>	<p>SB5. Obtain, evaluate, and communicate information to assess the interdependence of all organisms on one another and their environment.</p>
	<p>Learning Target:</p> <p>I will understand and explain how parts of ecosystems work together and affect outcomes of populations.</p>
	<p>Success Criteria:</p> <ul style="list-style-type: none"> • I can arrange the levels of organization in the biosphere in order from smallest to most complex. • I can differentiate between a population & a community. • I recognize factors that determine the carrying capacity of a population in an ecosystem. • I can identify density dependent and density independent limiting factors. • I can differentiate between exponential and logistic population growth. • I can interpret a population curve graph • I can recognize the difference between symbiosis relationships: parasitism, commensalism and mutualism. • I understand the importance of keystone species in an ecosystem.
	<p>Introduction/Connection:</p> <p>What are relationships? Give Examples in all disciplines. Are Relationships important? Examples of relationships in biology?</p>
	<p>DIRECT INSTRUCTION:</p> <p>Symbiosis Review Symbiosis carousel Keystone Species discussion</p>
<p>Work Period (We Do, You Do)</p> <p>Students learning by doing/demonstrating learning expectations. Describe the instructional process that will be used to engage the students in the work period.</p> <p>TKES 1, 2, 3, 4, 5, 7, 8,10</p>	<p>GUIDED PRACTICE:</p> <p>Symbiosis/keystone/Altruism Slideshow Keystone Species Video w viewing questions “Some species are more equal than others” How the Wolves changed rivers yellowstone video</p>
	<p>INDEPENDENT/COLLABORATIVE PRACTICE/DIFFERENTIATION:</p> <p>Symbiosis/keystone/Altruism Notes Symbiosis Carousel Keystone Species Video notes Ecology Vocab</p>

<p>Closing (We Check) Describe the instructional process that will be used to close the lesson and check for student understanding . TKES : 1,2,3, 4,5,6,7,8</p>	<p>SUMMARIZE/CHECK FOR UNDERSTANDING: EOC REVIEW</p>