



Science Grade 7				
Life Science: Interactions within Ecosystems (IE)				
Outcome	1 – Little Evidence With help, I understand parts of the simpler ideas and do a few of the simpler skills.	2 – Partial Evidence I understand the simpler ideas and can do the simpler skills. I am working on the more complex ideas and skills.	3 – Sufficient Evidence I understand the more complex ideas and can master the complex skills that are taught in class. I achieve the outcome.	4- Extensive Evidence I have a deep understanding of the complex ideas, and I can use the skills I have learned in situations that were not taught in class.
IE7.1 Relate key aspects of Indigenous knowledge to their understanding of ecosystems.	<ul style="list-style-type: none">• With help, I can point out key aspects of traditional Indigenous beliefs about ecosystems from information I have gathered.	<ul style="list-style-type: none">• I can point out key aspects of traditional Indigenous beliefs about ecosystems from information I have gathered.	<ul style="list-style-type: none">• I can relate key traditional Indigenous beliefs about ecosystems from information I have gathered to my own understanding of ecosystems using specific examples.	<ul style="list-style-type: none">• I can draw conclusions about the connection between the scientific definition of ecosystems and key traditional Indigenous beliefs about ecosystems from information I have gathered.
Comments				



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IE7.2 Observe, illustrate, and analyze living organisms within local ecosystems as part of interconnected food webs, populations, and communities.	Components of the biosphere	<ul style="list-style-type: none"> • With help, I can observe and illustrate some of the interactions of biotic components within specific populations, communities, and ecosystems. 	<ul style="list-style-type: none"> • I can observe and illustrate some of the interactions of biotic components within specific populations, communities, and ecosystems. 	<ul style="list-style-type: none"> • I can draw conclusions about the interactions of biotic components within specific populations, communities, and ecosystems. 	<ul style="list-style-type: none"> • I can compare the interactions of biotic components within specific populations, communities, and ecosystems.
	Classification of Organisms	<ul style="list-style-type: none"> • I can distinguish between producers, consumers and decomposers in a food chain. 	<ul style="list-style-type: none"> • I can show how producers, consumers and decomposers interact, using a food chain. 	<ul style="list-style-type: none"> • I can illustrate the interconnections of producers, consumers, decomposers in a particular ecosystem using food chains and food webs. 	<ul style="list-style-type: none"> • I can compare the interconnections of producers, consumers, and decomposers in two or more ecosystems using food chains and food webs.
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IE7.3 Evaluate biogeochemical cycles (water, carbon, and nitrogen) as representations of energy flow and the cycling of matter through ecosystems.	<ul style="list-style-type: none"> I can model some of the biogeochemical cycles (water, carbon, and nitrogen). With help, I can give examples of decomposers in ecosystems. 	<ul style="list-style-type: none"> I can model the biogeochemical cycles (water, carbon, and nitrogen). I can give examples of decomposers in ecosystems. 	<ul style="list-style-type: none"> I can compare how biogeochemical cycles (water, carbon, and nitrogen) represent energy flow and the cycling of matter through ecosystems. I can explain the role of decomposers in ecosystems. 	<ul style="list-style-type: none"> I can suggest how biogeochemical cycles have been used or could be used to develop technologies designed to assist in managing aspects of ecosystems. I can compare the role of decomposers to other consumers in ecosystems.
Comments				



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IE7.4 Analyze how ecosystems change in response to natural and human influences, and propose actions to reduce the impact of human behaviour on a specific ecosystem.	Change in ecosystems	<ul style="list-style-type: none"> • With help, I can list different changes in ecosystems that happen in response to natural and human influences 	<ul style="list-style-type: none"> • I can list different changes in ecosystems that happen in response to natural and human influences. 	<ul style="list-style-type: none"> • I can explain with examples how ecosystems change in response to natural and human influences. 	<ul style="list-style-type: none"> • I can defend a position on the impact of natural and human influences on ecosystems.
	Actions	<ul style="list-style-type: none"> • With help, I can describe some current actions that reduce the impact of human behaviour on a specific ecosystem. • I can take into account one of the following factors: scientific, social, technological, OR environmental in describing current actions. 	<ul style="list-style-type: none"> • I can describe some current actions that reduce the impact of human behaviour on a specific ecosystem. • I can take into account some of the following factors: scientific, social, technological, OR environmental in describing current actions. 	<ul style="list-style-type: none"> • I can propose possible actions to reduce the impact of human behaviour on a specific ecosystem, with support. • I can take into account most of the following factors: scientific, social, technological, OR environmental in proposing possible actions. 	<ul style="list-style-type: none"> • I can design an action plan to reduce the impact of human behaviour on a specific ecosystem. • I can take into account all of the following factors: scientific, social, technological, AND environmental in designing an action plan.
Comments					