

7s3 7s2	3. Demonstrate an understanding of interactions between and among biotic and abiotic elements in the environment. 2. Investigate interactions within the environment, and identify factors that affect the balance between different components of an ecosystem.			
	1	2	3	4
	Shows little understanding of interactions between biotic and abiotic elements and factors that affect the balance between different components of an ecosystem	Shows some understanding of interactions between biotic and abiotic elements and factors that affect the balance between different components of an ecosystem	Shows considerable understanding of interactions between biotic and abiotic elements and factors that affect the balance between different components of an ecosystem	Shows a high degree of understanding of interactions between biotic and abiotic elements and factors that affect the balance between different components of an ecosystem
Knowledge and Understanding (Subject - specific content acquired in each grade (knowledge), and the comprehension of its meaning and significance (understanding))				
7s11	<ul style="list-style-type: none"> demonstrates a limited understanding of an ecosystem as a system of interactions between living organisms and their environment 	<ul style="list-style-type: none"> demonstrates some understanding of an ecosystem as a system of interactions between living organisms and their environment 	<ul style="list-style-type: none"> demonstrates a considerable understanding of an ecosystem as a system of interactions between living organisms and their environment 	<ul style="list-style-type: none"> demonstrates a high degree of understanding of an ecosystem as a system of interactions between living organisms and their environment
7s12	<ul style="list-style-type: none"> identifies with many errors the biotic and abiotic elements in an ecosystem 	<ul style="list-style-type: none"> identifies with some errors the biotic and abiotic elements in an ecosystem 	<ul style="list-style-type: none"> identifies with few errors the biotic and abiotic elements in an ecosystem 	<ul style="list-style-type: none"> identifies with no errors the biotic and abiotic elements in an ecosystem
7s12	<ul style="list-style-type: none"> identifies with many errors interactions between biotic and abiotic elements 	<ul style="list-style-type: none"> identifies with some errors interactions between biotic and abiotic elements 	<ul style="list-style-type: none"> identifies with few errors interactions between biotic and abiotic elements 	<ul style="list-style-type: none"> identifies with no errors interactions between biotic and abiotic elements
7s13	<ul style="list-style-type: none"> abiotic-abiotic, abiotic-biotic , biotic-biotic identifies and explains with many errors the roles and interactions of producers, consumers and decomposers 	<ul style="list-style-type: none"> abiotic-abiotic, abiotic-biotic , biotic-biotic identifies and explains with some errors the roles and interactions of producers, consumers and decomposers 	<ul style="list-style-type: none"> abiotic-abiotic, abiotic-biotic , biotic-biotic identifies and explains with few errors the roles and interactions of producers, consumers and decomposers 	<ul style="list-style-type: none"> abiotic-abiotic, abiotic-biotic , biotic-biotic identifies and explains with no errors the roles and interactions of producers, consumers and decomposers
7s8	<ul style="list-style-type: none"> identifies with many errors the factors that affects the balance in an ecosystem (fire, drought, invasive) 	<ul style="list-style-type: none"> identifies with some errors the factors that affects the balance in an ecosystem (fire, drought, invasive) 	<ul style="list-style-type: none"> identifies with few errors the factors that affects the balance in an ecosystem (fire, drought, invasive) 	<ul style="list-style-type: none"> identifies with no errors the factors that affects the balance in an ecosystem (fire, drought, invasive)
Thinking and Investigation (Use of critical/creative thinking processes, skills, and strategies: Creativity, Application of prior knowledge/skills) i.e. webs, model				
7s6	<ul style="list-style-type: none"> uses critical/creative thinking processes, skills, and strategies with limited effectiveness with much assistance follows established safety procedures for investigating ecosystems 	<ul style="list-style-type: none"> uses critical/creative thinking processes, skills, and strategies with some effectiveness with some assistance follows established safety procedures for investigating ecosystems 	<ul style="list-style-type: none"> uses critical/creative thinking processes, skills, and strategies with considerable effectiveness with no assistance follows established safety procedures for investigating ecosystems 	<ul style="list-style-type: none"> uses critical/creative thinking processes, skills, and strategies with a high degree of effectiveness with no assistance follows established safety procedures for investigating ecosystems
Communication (Expression and organization of ideas and information in oral, visual, and/or written forms)				
7s10	Student expresses and organizes ideas and information using a variety of forms with limited effectiveness	Student expresses and organizes ideas and information using a variety of forms with some effectiveness	Student expresses and organizes ideas and information using a variety of forms with considerable effectiveness	Student expresses and organizes ideas and information using a variety of forms with a high degree of effectiveness
7s9	Student uses vocabulary and terminology of the discipline with limited effectiveness in oral and written communication	Student uses vocabulary and terminology of the discipline with some effectiveness in oral and written communication	Student uses vocabulary and terminology of the discipline with considerable effectiveness in oral and written communication	Student uses vocabulary and terminology of the discipline with a high degree of effectiveness in oral and written communication
Application (Transfer of knowledge and skills to unfamiliar contexts: Creativity, Application of prior knowledge and skills)				
7s7	<ul style="list-style-type: none"> designs, constructs and interprets with many errors a model ecosystem to illustrate interactions and factors that affect the balance between different components of an ecosystem 	<ul style="list-style-type: none"> designs, constructs and interprets with some errors a model ecosystem to illustrate interactions and factors that affect the balance between different components of an ecosystem 	<ul style="list-style-type: none"> designs, constructs and interprets with few errors a model ecosystem to illustrate interactions and factors that affect the balance between different components of an ecosystem 	<ul style="list-style-type: none"> designs, constructs and interprets with no errors a model ecosystem to illustrate interactions and factors that affect the balance between different components of an ecosystem
7s13	<ul style="list-style-type: none"> abiotic-abiotic, abiotic-biotic , biotic-biotic 	<ul style="list-style-type: none"> abiotic-abiotic, abiotic-biotic , biotic-biotic 	<ul style="list-style-type: none"> abiotic-abiotic, abiotic-biotic , biotic-biotic 	<ul style="list-style-type: none"> abiotic-abiotic, abiotic-biotic , biotic-biotic
7s14	<ul style="list-style-type: none"> draws and interprets with many errors food webs in an ecosystem 	<ul style="list-style-type: none"> draws and interprets with some errors food webs in an ecosystem 	<ul style="list-style-type: none"> draws and interprets with few errors food webs in an ecosystem 	<ul style="list-style-type: none"> draws and interprets with no errors food webs in an ecosystem
7s15	<ul style="list-style-type: none"> describes with many errors the transfer of energy in a food chain and explains the effects of elimination of any part of the chain 	<ul style="list-style-type: none"> describes with some errors the transfer of energy in a food chain and explains the effects of elimination of any part of the chain 	<ul style="list-style-type: none"> describes with few errors the transfer of energy in a food chain and explains the effects of elimination of any part of the chain 	<ul style="list-style-type: none"> describes with no errors the transfer of energy in a food chain and explains the effects of elimination of any part of the chain
7s17	<ul style="list-style-type: none"> describe with many errors how matter is cycled within the environment and explain how it promotes sustainability explains with many errors why an ecosystem is limited in the number of living things that it can support 	<ul style="list-style-type: none"> describe with some errors how matter is cycled within the environment and explain how it promotes sustainability explains with some errors why an ecosystem is limited in the number of living things that it can support 	<ul style="list-style-type: none"> describe with few errors how matter is cycled within the environment and explain how it promotes sustainability explains with few errors why an ecosystem is limited in the number of living things that it can support 	<ul style="list-style-type: none"> describe with no errors how matter is cycled within the environment and explain how it promotes sustainability explains with no errors why an ecosystem is limited in the number of living things that it can support

7s1	1. Assess the impacts of human activities and technologies on the environment, and evaluate ways of controlling these impacts			
	1	2	3	4
	Shows little understanding of impacts of human activities and technologies on the environment and evaluates ways of controlling these impacts.	Shows some understanding of impacts of human activities and technologies on the environment and evaluates ways of controlling these impacts.	Shows considerable understanding of impacts of human activities and technologies on the environment and evaluates ways of controlling these impacts.	Shows a high degree of understanding of impacts of human activities and technologies on the environment and evaluates ways of controlling these impacts. .
Knowledge and Understanding (Subject - specific content acquired in each grade (knowledge), and the comprehension of its meaning and significance (understanding))				
7s18	• identifies with many errors human activities and technologies that alter the balance within a local ecosystem (fire, drought, invasive)	• identifies with some errors human activities and technologies that alter the balance within a local ecosystem (fire, drought, invasive)	• identifies with few errors human activities and technologies that alter the balance within a local ecosystem (fire, drought, invasive)	• identifies with no errors human activities and technologies that alter the balance within a local ecosystem (fire, drought, invasive)
7s 18	• identifies with many errors several impacts of human activities and technologies on the environment	• identifies with some errors several impacts of human activities and technologies on the environment	• identifies with few errors several impacts of human activities and technologies on the environment	• identifies with no errors several impacts of human activities and technologies on the environment
7s1	• identifies with many errors several ways to control impacts of human activities and technologies on the environment	• identifies with some errors several ways to control impacts of human activities and technologies on the environment	• identifies with few errors several ways to control impacts of human activities and technologies on the environment	• identifies with no errors several ways to control impacts of human activities and technologies on the environment
7s 16	• distinguish with many errors between primary succession and secondary succession	• distinguish with some errors between primary succession and secondary succession	• distinguish with few errors between primary succession and secondary succession	• distinguish with no errors between primary succession and secondary succession
7s 19	• describe with many errors Aboriginal perspectives on sustainability and describe ways in which they can be used in habitat and wildlife management	• describe with some errors Aboriginal perspectives on sustainability and describe ways in which they can be used in habitat and wildlife management	• describe with few errors Aboriginal perspectives on sustainability and describe ways in which they can be used in habitat and wildlife management	• describe with no errors Aboriginal perspectives on sustainability and describe ways in which they can be used in habitat and wildlife management
Thinking and Investigation (Use of critical/creative thinking processes, skills, and strategies: Creativity, Application of prior knowledge/skills) i.e. webs, model				
7s6	• uses critical/creative thinking processes, skills, and strategies with limited effectiveness • with much assistance follows established safety procedures for investigating ecosystems	• uses critical/creative thinking processes, skills, and strategies with some effectiveness • with some assistance follows established safety procedures for investigating ecosystems	• uses critical/creative thinking processes, skills, and strategies with considerable effectiveness • with no assistance follows established safety procedures for investigating ecosystems	• uses critical/creative thinking processes, skills, and strategies with a high degree of effectiveness • with no assistance follows established safety procedures for investigating ecosystems
Communication (Expression and organization of ideas and information in oral, visual, and/or written forms)				
7s10	Student expresses and organizes ideas and information using a variety of forms with limited effectiveness	Student expresses and organizes ideas and information using a variety of forms with some effectiveness	Student expresses and organizes ideas and information using a variety of forms with considerable effectiveness	Student expresses and organizes ideas and information using a variety of forms with a high degree of effectiveness
7s9	Student uses vocabulary and terminology of the discipline with limited effectiveness in oral and written communication	Student uses vocabulary and terminology of the discipline with some effectiveness in oral and written communication	Student uses vocabulary and terminology of the discipline with considerable effectiveness in oral and written communication	Student uses vocabulary and terminology of the discipline with a high degree of effectiveness in oral and written communication
Application (Transfer of knowledge and skills to unfamiliar contexts: Creativity, Application of prior knowledge and skills)				
7s4	• assess with many errors the impact of selected technologies on the environment	• assess with some errors the impact of selected technologies on the environment	• assess with few errors the impact of selected technologies on the environment	• assess with no errors the impact of selected technologies on the environment
7s5	• analyse with many errors the costs and benefits of selected strategies for protecting the environment	• analyse with some errors the costs and benefits of selected strategies for protecting the environment	• analyse with few errors the costs and benefits of selected strategies for protecting the environment	• analyse with no errors the costs and benefits of selected strategies for protecting the environment
7s18	• examines and interprets with many errors personal Ecological Footprint (Carbon)	• examines and interprets with some errors personal Ecological Footprint (Carbon)	• examines and interprets with few errors personal Ecological Footprint (Carbon)	• examines and interprets with no errors personal Ecological Footprint (Carbon)
	• designs, constructs and interprets with many errors a table and graph with many errors to display data of Carbon Footprint	• designs, constructs and interprets with some errors a table and graph with some errors to display data of Carbon Footprint	• designs, constructs and interprets with few errors a table and graph with few errors to display data of Carbon Footprint	• designs, constructs and interprets with no errors a table and graph with no errors to display data of Carbon Footprint
7s1	• creates a list of ways with many errors to reduce personal Carbon Footprint	• creates a list of ways with some errors to reduce personal Carbon Footprint	• creates a list of ways with few errors to reduce personal Carbon Footprint	• creates a list of ways with no errors to reduce personal Carbon Footprint