

Learning Area: Biology Topic 4: Biodiversity and Ecosystem Dynamics	Year Level: Stage 1	Lesson Length: 80 minutes	Lesson Sequence: Week 3 starting the 12 th May 2019. Monday
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Strand(s): <ul style="list-style-type: none"> Science Understanding (SU) Science as a Human Endeavour (SHE) 	Content Descriptor (SACE Stage 1 Biology): <ul style="list-style-type: none"> Ecosystems can be diverse and can be defined by their biotic and abiotic components and the interactions between elements of these components. Distinguish between biotic and abiotic components of ecosystems.
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Prior Knowledge: Multicellular organisms, biodiversity.

Aim of Lesson 8-9: To define the biotic and abiotic components of and ecosystem.

Student outcome(s): Students will be able to define and identify the biotic and abiotic factors of an ecosystem.

Structure	Time (Mins)	Learning Cycle Focus (5E's)	Concepts & Skills (General Capabilities)	Teaching Strategies	What students will do	Assessment Activities	Resources Equipment
Beginning	5	Engage	<ul style="list-style-type: none"> Literacy Critical and Creative Thinking 	<p>Lesson Starter Lesson Starter Question Roll</p>	<ul style="list-style-type: none"> -Attempt Question -Listen 	-	<ul style="list-style-type: none"> -Smartboard -PowerPoint
	10	Evaluate	<ul style="list-style-type: none"> Literacy Critical and creative thinking 	<p>PowerPoint. Biotic and Abiotic Factors of Ecosystems</p>	<ul style="list-style-type: none"> -Listen -Ask questions and answer questions 	-	<ul style="list-style-type: none"> -PowerPoint -OneNote -Smartboard

	15	Explain	<ul style="list-style-type: none"> Literacy 	<p>Group Activity 1. Name the relationship between the organisms</p>	<ul style="list-style-type: none"> -Listen -Take notes 	-	<ul style="list-style-type: none"> -PowerPoint -OneNote -Smartboard
Middle	5	Explore Elaborate	<ul style="list-style-type: none"> Literacy Critical and creative thinking Personal and Social Capability 	<p>SHE Task Introduction Introduce summative SHE Task</p>	<ul style="list-style-type: none"> -Participate in activity 	-	<ul style="list-style-type: none"> PowerPoint -OneNote
	15	Explore Elaborate	<ul style="list-style-type: none"> Literacy Critical and creative thinking Personal and Social Capability 	<p>SHE Task example 📖 Attempt She task from textbook. Go through SHE from textbook.</p>	<ul style="list-style-type: none"> -Participate in activity 	-	<ul style="list-style-type: none"> PowerPoint -OneNote
End	30	Explain	<ul style="list-style-type: none"> Literacy 	<p>Reading and writing. Textbook questions 4.1: 5,6, 12-13 (pg. 338-339). If completed start working on SHE task</p>	<ul style="list-style-type: none"> -Listen -Take notes 	-	<ul style="list-style-type: none"> -PowerPoint -OneNote -Smartboard

Learning Area: Biology Topic 4: Biodiversity and Ecosystem Dynamics	Year Level: Stage 1	Lesson Length: 40 minutes	Lesson Sequence: Week 3 Wednesday
Strand(s): <ul style="list-style-type: none"> Science Understanding (SU) Science as a Human Endeavour (SHE) 	Content Descriptor (SACE Stage 1 Biology): <ul style="list-style-type: none"> Ecosystems can be diverse and can be defined by their biotic and abiotic components and the interactions between elements of these components. <ul style="list-style-type: none"> Distinguish between biotic and abiotic components of ecosystems. 		

Prior Knowledge: Topic 3: Multicellular organisms, biodiversity

Aim of Lesson: The purpose of this lesson is to improve student understanding of classification

Student outcome(s): Students will improve their understanding of classification


Structure	Time (Mins)	Learning Cycle Focus (5E's)	Concepts & Skills (General Capabilities)	Teaching Strategies	What students will do	Assessment Activities	Resources Equipment
Beginning	5	Engage	<ul style="list-style-type: none"> Literacy 	<p>Lesson Starter Lesson Starter Question Roll</p>	<ul style="list-style-type: none"> -Attempt Question -Listen 	-	<ul style="list-style-type: none"> -Smartboard -OneNote
	10	Explore Evaluate	<ul style="list-style-type: none"> Literacy Critical and creative thinking 	<p>Classification Kahoot</p>	<ul style="list-style-type: none"> -Listen -Ask questions and answer questions 	-	<ul style="list-style-type: none"> -Smartboard -OneNote

Middle End	25	Explain	<ul style="list-style-type: none">Literacy	Reading and Writing Textbook Questions (4.2) 1, 2, 3,4,5 and 11. Go through answers to the questions.	-Discussion		-Smartboard -OneNote -Textbook
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Learning Area: Biology Topic 4: Biodiversity and Ecosystem Dynamics			Year Level: Stage 1		Lesson Length: 80 minutes	Lesson Sequence: Week 3 Thursday	
Strand(s): <ul style="list-style-type: none"> Science Understanding (SU) Science as a Human Endeavour (SHE) 			Content Descriptor (SACE Stage 1 Biology): <ul style="list-style-type: none"> Ecosystems can be diverse and can be defined by their biotic and abiotic components and the interactions <ul style="list-style-type: none"> Compare the characteristics of at least two ecosystems. 				
Prior Knowledge: Topic 3: Multicellular organisms, biodiversity, biotic and abiotic factors							
Aim of Lesson: The purpose of this lesson is to explain the different environmental components of different ecosystems.							
Student outcome(s): Students will understand that different environmental conditions defines an ecosystem.							
Structure	Time (Mins)	Learning Cycle Focus (5E's)	Concepts & Skills (General Capabilities)	Teaching Strategies	What students will do	Assessment Activities	Resources Equipment
Beginning	5	Engage	<ul style="list-style-type: none"> Literacy 	<p>Lesson Starter</p> <p>Lesson Starter Question Roll</p>	<ul style="list-style-type: none"> -Attempt Question -Listen 	-	<ul style="list-style-type: none"> -Smartboard or Computer/Projector -OneNote
	10	Explain Evaluate	<ul style="list-style-type: none"> Literacy Critical and creative thinking 	<p>Question and Answer.</p> <p>Go through answers to textbook homework questions.</p>	<ul style="list-style-type: none"> -Listen -Ask questions and answer questions 	-	<ul style="list-style-type: none"> -Smartboard or Computer/Projector -OneNote
	10	Explain	<ul style="list-style-type: none"> Literacy 	<p>PowerPoint.</p> <p>Environmental components of a community.</p>	<ul style="list-style-type: none"> -Listen -Ask questions and answer questions 	-	<ul style="list-style-type: none"> -Smartboard -PowerPoint -OneNote

	10	Engage Elaborate	<ul style="list-style-type: none"> Literacy Critical and creative thinking 	<p>Online interactive Activity: Food chains and food webs. Go through answers with the class.</p>	-Participate in Activity	-	<ul style="list-style-type: none"> -Smartboard -PowerPoint -OneNote
Middle	10	Explain	<ul style="list-style-type: none"> Literacy 	<p>PowerPoint Continued. Australian ecosystems</p>	-Listen -Ask Questions	-	<ul style="list-style-type: none"> -Smartboard -PowerPoint -OneNote
	10		<ul style="list-style-type: none"> Literacy 	<p>Video Australian ecosystems https://www.youtube.com/watch?v=nb57nDoKZXg</p>	-Watch video	-	<ul style="list-style-type: none"> -Smartboard
End	25	Explore Elaborate	<ul style="list-style-type: none"> Literacy 	<p>Reading and writing. Textbook questions (4.4) 1-6 (pg. 377-379).</p>	-Attempt Questions	-	<ul style="list-style-type: none"> -Smartboard -PowerPoint -OneNote -Textbook

Learning Area: Biology Topic 4: Biodiversity and Ecosystem Dynamics			Year Level: Stage 1		Lesson Length: 80 minutes	Lesson Sequence: Week 3 Friday	
Strand(s): <ul style="list-style-type: none"> • Science Understanding (SU) • Science as a Human Endeavour (SHE) 		Content Descriptor (SACE Stage 1 Biology):					
Prior Knowledge: Topic 3: Multicellular organisms, biodiversity							
Aim of Lesson: The purpose of this lesson is for students to understand zonation and stratification							
Student outcome(s): Students will understand the concepts of zonation and stratification							
Structure	Time (Mins)	Learning Cycle Focus (5E's)	Concepts & Skills (General Capabilities)	Teaching Strategies	What students will do	Assessment Activities	Resources Equipment
Beginning	5	Engage	<ul style="list-style-type: none"> • Literacy • Critical and Creative Thinking 	<p style="text-align: center;">Lesson Starter Lesson Starter Question Roll</p>	-Attempt Question -Listen	-	-Smartboard -PowerPoint
Middle	10	Engage	<ul style="list-style-type: none"> • Literacy 	<p style="text-align: center;">PowerPoint. Zonation and Stratification</p>	-Ask Questions -Listen	-	-Smartboard -PowerPoint

	10	Explore Elaborate	<ul style="list-style-type: none"> Literacy 	<p align="center">Group Activity</p> <p align="center">Predict the stratification conditions</p>	-Participate	-	-Smartboard -PowerPoint -OneNote
	10	Evaluate	<ul style="list-style-type: none"> Literacy Critical and Creative Thinking 	Biotic and Abiotic factors Kahoot	-Participate	-	-Smartboard -PowerPoint
	15	-	<ul style="list-style-type: none"> Literacy 	<p align="center">Reading and Writing.</p> <p align="center">Textbook questions (4.4) 6 and 7 pg. 378-379</p>	-Answer Questions	-	-Smartboard -PowerPoint -Textbook
End	25	-	<ul style="list-style-type: none"> Literacy 	<p align="center">SHE Task </p> <p align="center">Continue working on SHE task</p>	-Work on She task	-	-Smartboard -PowerPoint