

## 7-12 Kimbriki Excursion: NSW Curriculum Links

The **Geography and Science curriculum** outcomes listed below represent potential links to learning experiences at the Kimbriki excursion and supporting resources for the classroom. Not all outcomes will be addressed during every excursion. Programs can be tailored to prioritise specific outcomes based on teacher-identified learning goals.

**For Geography**, in addition to the specific curriculum outcomes listed below, the excursion and accompanying resources also provide opportunities for students to apply a range of **geographical concepts** and **geographical inquiry skills**.

Geography 7-10				
Learning Area	Outcome Code	Content Focus	Related Excursion Activities	Supporting Resource Hive Documents
Liveability of Places (Stage 4)	GE4-PRI-01 GE4-PER-01	Influences and Impacts on Liveability	<p><b>Site Bus Tour</b> (recycling systems, ANL, e-waste, site infrastructure)</p> <p><b>Eco Workshop</b> (4 Rs, sustainability choices, composting &amp; worm farming)</p>	<ul style="list-style-type: none"> <li>- <a href="#">Waste Audit</a></li> <li>- <a href="#">Environmental Practices at Kimbriki</a></li> <li>- <a href="#">Sustainable Living Principles Videos</a></li> <li>- <a href="#">Lined Landfill Cells</a></li> <li>- <a href="#">Mixed Waste Recycle and Reuse</a></li> <li>- <a href="#">Interactive Site Map</a></li> <li>- <a href="#">Project Info Sheet</a></li> </ul>
	GE4-MAN-01	Enhancing Liveability	<p><b>Site Bus Tour</b> (waste management systems, pollution prevention infrastructure)</p> <p><b>Eco Workshop</b> (waste reduction and sustainability strategies)</p>	<ul style="list-style-type: none"> <li>- <a href="#">Waste Audit</a></li> <li>- <a href="#">Environmental Practices at Kimbriki</a></li> <li>- <a href="#">Sustainable Living Principles Videos</a></li> <li>- <a href="#">Mixed Waste Recycle and Reuse</a></li> <li>- <a href="#">Worm Farm Setup</a></li> <li>- <a href="#">Composting Setup</a></li> </ul>
	GE4-TAP-01 GE4-COM-01	Thinking and Working Geographically	<p><b>Site Bus Tour</b> (spatial layout, site observation)</p> <p><b>Eco Workshop</b> (collecting information; applying sustainability concepts; analysing Aerial Photos – change over time)</p>	<ul style="list-style-type: none"> <li>- <a href="#">Waste Audit</a></li> <li>- <a href="#">Environmental Practices at Kimbriki</a></li> <li>- <a href="#">Interactive Site Map</a></li> <li>- <a href="#">Project Info Sheet</a></li> <li>- <a href="#">Nature Journaling</a></li> </ul>

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Learning Area	Outcome Code	Content Focus	Related Excursion Activities	Supporting Resource Hive Documents
Water in the World (Stage 4)	GE4-DFC-01 GE4-TAP-01 GE4-COM-01	Thinking and Working Geographically	<b>Site Bus Tour</b> (water-flow pathways, stormwater diversion, leachate systems)  <b>Eco Workshop</b> (collecting information; applying sustainability concepts; analysing Aerial Photos – change over time)	<ul style="list-style-type: none"> <li>- <a href="#">Interactive Site Map</a></li> <li>- <a href="#">Environmental Practices at Kimbriki</a></li> <li>- <a href="#">History (Changes over Time)</a></li> </ul>
	GE4-PRI-01	Water Resources and Their Value	<b>Site Bus Tour</b> (stormwater capture, shared water resources, water protection systems)	<ul style="list-style-type: none"> <li>- <a href="#">Water Conservation and Management</a></li> <li>- <a href="#">Clean Water Diversion System</a></li> <li>- <a href="#">Lined Landfill Cells</a></li> </ul>
	GE4-MAN-01	Water Scarcity and Water Management	<b>Site Bus Tour</b> (leachate dam, water treatment areas, pollution prevention engineering)	<ul style="list-style-type: none"> <li>- <a href="#">Water Conservation and Management</a></li> <li>- <a href="#">Clean Water Diversion System</a></li> <li>- <a href="#">Environmental Practices at Kimbriki</a></li> <li>- <a href="#">ESG Document</a></li> </ul>
Interconnections and Trade (Stage 4)	GE4-PRI-01 GE4-PER-01 GE4-MAN-01	Production and Consumption Case Study	<b>Eco Workshop</b> (4 Rs, circular vs linear economy, resource recovery pathways)	<ul style="list-style-type: none"> <li>- <a href="#">Stage 4 Discussion Starters</a></li> <li>- <a href="#">Mixed Waste Recycle and Reuse</a></li> <li>- <a href="#">ANL Processing Fact Sheet</a></li> <li>- <a href="#">Sustainable Living Principles Videos</a></li> <li>- <a href="#">Environmental Practices at Kimbriki</a></li> </ul>
Biomes and Sustainable Agriculture (Stage 5)	GE5-PRI-01 GE5-PER-01	Factors influencing food production	<b>Eco Workshop</b> (composting, worm farming, soil health)	<ul style="list-style-type: none"> <li>- <a href="#">Waste Audit</a></li> <li>- <a href="#">Composting Setup</a></li> <li>- <a href="#">Worm Farm Setup</a></li> <li>- <a href="#">ANL Processing Fact Sheet</a></li> <li>- <a href="#">Environmental Practices at Kimbriki</a></li> </ul>
	GE5-MAN-01	Towards Food security	<b>Eco Workshop</b> (food waste reduction, sustainable food system practices)	<ul style="list-style-type: none"> <li>- <a href="#">Composting Setup</a></li> <li>- <a href="#">Worm Farm Setup</a></li> <li>- <a href="#">Sustainable Living Principles Videos</a></li> </ul>
	GE5-TAP-01 GE5-COM-01	Thinking and Working Geographically	<b>Site Bus Tour</b> (site layout, human–environment interactions)	<ul style="list-style-type: none"> <li>- <a href="#">Waste Audit</a></li> <li>- <a href="#">Interactive Site Map</a></li> <li>- <a href="#">Nature Journaling</a></li> </ul>

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			<b>Eco Workshop</b> (sustainability concepts; analysing Aerial Photos – change over time)	- <a href="#">Environmental Practices at Kimbriki</a>
Changing Places (Stage 5)	<b>GE5-PRI-01</b> <b>GE5-PER-01</b>	Changing Settlement Patterns	<b>Eco Workshop</b> (human impacts on environments, waste behaviours shaping places)	- <a href="#">History - Kimbriki</a> - <a href="#">Environmental Practices at Kimbriki</a> - <a href="#">Project Info Sheet</a> - <a href="#">Interactive Site Map</a>
	<b>GE5-MAN-01</b> <b>GE5-DFC-01</b>	Urban Planning for sustainability	<b>Site Bus Tour</b> (water diversion engineering, leachate systems, recycling infrastructure)	- <a href="#">Clean Water Diversion System</a> - <a href="#">Lined Landfill Cells</a> - <a href="#">Environmental Practices at Kimbriki</a> - <a href="#">Water Conservation and Management</a> - <a href="#">ESG Document</a>
Environmental Change and Management (Stage 5)	<b>GE5-DFC – 01</b> <b>GE5-PRI-01</b>	Environmental Change	<b>Site Bus Tour</b> (environmental change areas; regeneration and site management)	- <a href="#">History - Kimbriki</a> - <a href="#">Environmental Practices at Kimbriki</a> - <a href="#">Reducing Greenhouse Gases (Gas Flare)</a> - <a href="#">Mixed Waste Recycle and Reuse</a>
	<b>GE5-MAN-01</b>	Environmental management	<b>Site Bus Tour</b> (environmental controls; water protection; engineered systems)	- <a href="#">Water Conservation and Management</a> - <a href="#">Clean Water Diversion System</a> - <a href="#">Lined Landfill Cells</a> - <a href="#">ESG Document</a> - <a href="#">ANL Processing Fact Sheet</a>

## Geography Outcome Codes for Years 7-10

**GE4-PRI-01** - Explains the processes and interactions that change people, places and environments

**GE4-PER-01** - Examines and describes the perspectives of people and organisations on a range of geographical issues

**GE4-MAN-01** - Explains the management and protection of places and environments

**GE4-TAP-01** - Selects and uses geographical tools to acquire and process geographical information

**GE4-COM-01** - Uses concepts and terminology to communicate geographical information for a range of purposes, audiences and contexts

**GE5-DFC-01** - Explains how the diverse features and characteristics of a range of places and environments change over time

**GE5-PRI-01** - Analyses the processes and interactions that transform people, places and environments

**GE5-PER-01** - Accounts for the perspectives of people and organisations on a range of geographical opportunities and challenges

**GE5-MAN-01** - Assesses different approaches to the management and protection of places and environments

**GE5-TAP-01** - Applies and evaluates a range of geographical tools to acquire and process geographical information

**GE5-COM-01** - Selects and applies concepts and terminology to communicate geographical information for a range of purposes, audiences and contexts

## Geography 11-12

Learning Area	Outcome Code and Description	Outcome Content Covered	Related Excursion Activities	Supporting Resource Hive Documents
Earth's Natural Systems (Year 11)	<b>GE11-01</b> <b>GE11-02</b> <b>GE11-05</b> <b>GE11-06</b> <b>GE11-07</b> <b>GE11-08</b> <b>GE11-09</b>	Natural systems and land cover change	<b>Site Bus Tour</b> - site observation, water flow pathways, stormwater diversion, leachate system  <b>Eco Workshop</b> – spatial layout (aerial photos) applying sustainability concepts	<ul style="list-style-type: none"> <li>- <a href="#">Nature Journaling</a></li> <li>- <a href="#">Environmental Practices at Kimbriki</a></li> <li>- <a href="#">Interactive Site Map</a></li> <li>- <a href="#">Project Info Sheet</a></li> </ul>
People, patterns and processes (Year 11)	<b>GE11-01</b> <b>GE11-02</b> <b>GE11-03</b> <b>GE11-04</b> <b>GE11-05</b> <b>GE11-06</b> <b>GE11-07</b> <b>GE11-08</b> <b>GE11-09</b>	Population and resource consumption  People, patterns and processes study – Study 5: Technological advances and the transformation of places	<b>Site Bus Tour</b> - recycling systems, ANL, e-waste, site infrastructure  <b>Eco Workshop</b> - 4 Rs; sustainability choices, waste reduction strategies, composting & worm farming	<ul style="list-style-type: none"> <li>- <a href="#">Worm Farm Setup</a></li> <li>- <a href="#">Composting Setup</a></li> <li>- <a href="#">ANL Processing Fact Sheet</a></li> <li>- <a href="#">Waste Audit</a></li> <li>- <a href="#">Environmental Practices at Kimbriki</a></li> <li>- <a href="#">Sustainable Living Principles Videos</a></li> <li>- <a href="#">Mixed Waste Recycle and Reuse</a></li> </ul>
Human-environment interactions (Year 11)	<b>GE11-01</b> <b>GE11-03</b> <b>GE11-04</b> <b>GE11-05</b> <b>GE11-06</b> <b>GE11-07</b> <b>GE11-08</b> <b>GE11-09</b>	Human-environment interactions study – Study 1: A geographic region	<b>Site Bus Tour</b> - waste management systems, pollution-prevention infrastructure, water flow pathways, stormwater diversion, leachate systems  <b>Eco Workshop</b> - 4 Rs; sustainability choices, waste reduction strategies, analysing Aerial Photos – change over time)	<ul style="list-style-type: none"> <li>- <a href="#">Interactive Site Map</a></li> <li>- <a href="#">Environmental Practices at Kimbriki</a></li> <li>- <a href="#">History (Changes over Time)</a></li> </ul>

## Geography 11-12

Learning Area	Outcome Code and Description	Outcome Content Covered	Related Excursion Activities	Supporting Resource Hive Documents
Global Sustainability (Year 12)	<b>GE12-01</b> <b>GE12-02</b> <b>GE12-03</b> <b>GE12-04</b> <b>GE12-05</b> <b>GE12-06</b> <b>GE12-07</b> <b>GE12-08</b> <b>GE12-09</b>	Investigation of a global economic activity	<b>Site Bus Tour</b> - recycling systems, ANL, e-waste  <b>Eco Workshop</b> - 4 Rs, circular vs linear economy, resource recovery pathways	<ul style="list-style-type: none"> <li>- <a href="#">ANL Processing Fact Sheet</a></li> <li>- <a href="#">ESG Document</a></li> <li>- <a href="#">Environmental Practices at Kimbriki</a></li> <li>- <a href="#">Sustainable Living Principles Videos</a></li> <li>- <a href="#">Mixed Waste Recycle and Reuse</a></li> </ul>
Rural and urban places (year 12)	<b>GE12-01</b> <b>GE12-02</b> <b>GE12-03</b> <b>GE12-04</b> <b>GE12-05</b> <b>GE12-06</b> <b>GE12-07</b> <b>GE12-08</b> <b>GE12-09</b>	Rural and urban settlement	<b>Site Bus Tour</b> - stormwater capture, shared water resources, water protection systems, leachate dam, water treatment areas, pollution-prevention engineering	<ul style="list-style-type: none"> <li>- <a href="#">Lined Landfill Cells</a></li> <li>- <a href="#">Water Conservation and Management</a></li> <li>- <a href="#">Clean Water Diversion System</a></li> <li>- <a href="#">Environmental Practices at Kimbriki</a></li> <li>- <a href="#">ESG Document</a></li> </ul>

## Geography Outcome Codes for Years 11-12

**GE11-01** – Examines places, environments and natural and human phenomena for their characteristics, spatial patterns, interactions, and changes over time

**GE11-02** – Explains geographical processes and influences, at a range of scales, that form and transform places and environments

**GE11-03** – Explains geographical opportunities and challenges, and varying perspectives and responses.

**GE11-04** – Assesses responses and management strategies, at a range of scales, for sustainability.

**GE11-05** – Analyses and synthesises relevant geographical information from a variety of sources

**GE11-06** – Identifies geographical methods used in geographical inquiry and their relevance in the contemporary world.

**GE11-07** – Applies geographical inquiry skills and tools, including spatial technologies, fieldwork, and ethical practices, to investigate places and environments

**GE11-08** – Applies mathematical ideas and techniques to analyse geographical data.

**GE11-09** – Communicates and applies geographical understanding using geographical knowledge, concepts, terms and tools in appropriate forms.

**GE12-01** – Analyses rural and urban places, ecosystems, global biodiversity and economic activity for their characteristics, spatial patterns, interactions and nature and extent of change over time

**GE12-02** – Analyses geographical processes and influences, at a range of scales, that form and transform places and environments

**GE12-03** – Assesses geographical opportunities and challenges, and the role of varying perspectives and responses in their management.

**GE12-04** – Evaluates responses and management strategies, at a range of scales, for sustainability

**GE12-05** – Synthesises and evaluates relevant geographical information from a variety of sources

**GE12-06** – Justifies geographical methods used in geographical inquiry and their relevance in the contemporary world.

**GE12-07** – Selects and applies geographical inquiry skills and tools, including spatial technologies, fieldwork, and ethical practices, to investigate places and environments.

**GE12-08** – Applies mathematical ideas and techniques to analyse complex geographical data.

**GE12-09** – Communicates and applies geographical understanding using geographical knowledge, concepts, terms and tools in appropriate forms.

## Science 7-10

Learning Area	Outcome Code and Description	Outcome Content Covered	Related Excursion Activities	Supporting Resource Hive Documents
Working Scientifically (Stage 4)	<b>SC4-WS-01</b> <b>SC4-WS-02</b> <b>SC4-WS-03</b> <b>SC4-WS-04</b> <b>SC4-WS-05</b> <b>SC4-WS-06</b> <b>SC4-WS-07</b> <b>SC4-WS-08</b>	Observing Questioning and predicting Planning investigations Conducting investigations Processing data and information Analysing data and information Problem-Solving Communicating		<ul style="list-style-type: none"> <li>- <a href="#">Waste Audit</a></li> <li>- <a href="#">Stage 4 Discussion Starters</a></li> <li>- <a href="#">Environmental Practices at Kimbriki</a></li> <li>- <a href="#">Project Info Sheet</a></li> </ul>
Forces (Stage 4)	<b>SC4-FOR-01</b>	Forces in Context	<b>Site Bus Tour</b> (crushers, compactors, excavators)	<ul style="list-style-type: none"> <li>- <a href="#">ANL Processing Fact Sheet</a></li> <li>- <a href="#">Mixed Waste Recycle and Reuse</a></li> <li>- <a href="#">Lined Landfill Cells</a></li> </ul>
Living Systems (Stage 4)	<b>SC4-LIV-01</b>	Living Systems in Context	<b>Eco Workshop</b> (worm-farms, compost ecosystems, decomposition processes)	<ul style="list-style-type: none"> <li>- <a href="#">Worm Farm Setup</a></li> <li>- <a href="#">Composting Setup</a></li> <li>- <a href="#">Nature Journalling</a></li> </ul>
Change (Stage 4)	<b>SC4-PRT-01</b>	Energy Transfers	<b>Eco Workshop</b> (heat in compost, biological energy cycling)	<ul style="list-style-type: none"> <li>- <a href="#">Composting Setup</a></li> <li>- <a href="#">Worm Farm Setup</a></li> <li>- <a href="#">Reducing Greenhouse Gases (Gas Flare)</a></li> </ul>

## Science 7-10

Learning Area	Outcome Code and Description	Outcome Content Covered	Related Excursion Activities	Supporting Resource Hive Documents
Working Scientifically (Stage 5)	<b>SC5-WS-01</b> <b>SC5-WS-02</b> <b>SC5-WS-03</b> <b>SC5-WS-04</b> <b>SC5-WS-05</b> <b>SC5-WS-06</b> <b>SC5-WS-07</b> <b>SC5-WS-08</b>	Observing Questioning and predicting Planning investigations Conducting investigations Processing data and information Analysing data and information Problem-Solving Communicating	Communicating Students engage with selected Working Scientifically skills (observing; questioning; analyzing and communicating) with opportunities to extend these through supporting resources back at school.	<ul style="list-style-type: none"> <li>- <a href="#">Waste Audit</a></li> <li>- <a href="#">Stage 4 Discussion Starters</a></li> <li>- <a href="#">Environmental Practices at Kimbriki</a></li> <li>- <a href="#">Project Info Sheet</a></li> </ul>
Materials (Stage 5)	<b>SC5-MAT-01</b>	Resources Materials in Context	<b>Site Bus Tour</b> (material sorting, transformation, resource-recovery systems)	<ul style="list-style-type: none"> <li>- <a href="#">Waste Audit</a></li> <li>- <a href="#">Mixed Waste Recycle and Reuse</a></li> <li>- <a href="#">ANL Processing Fact Sheet</a></li> <li>- <a href="#">Composting Setup</a></li> </ul>
Environmental Sustainability (Stage 5)	<b>SC5-ENV-01</b> <b>SC5-WS-07</b>	Sustainability Climate Science Alternative resource use and recycling	<b>Site Bus Tour &amp; Eco Workshop</b> (recycling infrastructure, emissions reduction, 4 Rs, sustainable living strategies)	<ul style="list-style-type: none"> <li>- <a href="#">Environmental Practices at Kimbriki</a></li> <li>- <a href="#">Sustainable Living Principles Videos</a></li> <li>- <a href="#">Water Conservation and Management</a></li> <li>- <a href="#">Reducing Greenhouse Gases (Gas Flare)</a></li> <li>- <a href="#">Clean Water Diversion System</a></li> <li>- <a href="#">ESG Document</a></li> </ul>

## Science 11-12

Learning Area	Outcome Code and Description	Outcome Content Covered	Related Excursion Activities	Supporting Resource Hive Documents
Working Scientifically (Year 11)	<b>EES-11WS-01</b> <b>EES-11WS-02</b> <b>EES-11WS-03</b> <b>EES-11WS-04</b> <b>EES-11WS-05</b> <b>EES-11WS-06</b> <b>EES-11WS-07</b>	Questioning and predicting Planning scientific investigations Conducting scientific investigations Processing data and information Analysing data and information Problem-Solving Communicating	Communicating Students engage with selected Working Scientifically skills (observing; questioning; analyzing and communicating) with opportunities to extend these through supporting resources back at school.	<ul style="list-style-type: none"> <li>- <a href="#">Waste Audit</a></li> <li>- <a href="#">Environmental Practices at Kimbriki</a></li> <li>- <a href="#">Project Info Sheet</a></li> </ul>
Human Impacts (Year 11)	<b>EES-11-03</b>	Water Processes Soil, Salinity and Erosion	<b>Site Bus Tour</b> – (stormwater capture, water protection systems, leachate dam, water treatment plant)	<ul style="list-style-type: none"> <li>- <a href="#">Lined Landfill Cells</a></li> <li>- <a href="#">Environmental Practices at Kimbriki</a></li> <li>- <a href="#">Sustainable Living Principles Videos</a></li> <li>- <a href="#">Water Conservation and Management</a></li> <li>- <a href="#">Reducing Greenhouse Gases (Gas Flare)</a></li> <li>- <a href="#">Clean Water Diversion System</a></li> <li>- <a href="#">ESG Document</a></li> </ul>
Working Scientifically (Year 12)	<b>EES-12WS-01</b> <b>EES-12WS-02</b> <b>EES-12WS-03</b> <b>EES-12WS-04</b> <b>EES-12WS-05</b> <b>EES-12WS-06</b> <b>EES-12WS-07</b>	Questioning and predicting Planning scientific investigations Conducting scientific investigations Processing data and information Analysing data and information Problem-Solving Communicating	Communicating Students engage with selected Working Scientifically skills (observing; questioning; analyzing and communicating) with opportunities to extend these through supporting resources back at school.	<ul style="list-style-type: none"> <li>- <a href="#">Waste Audit</a></li> <li>- <a href="#">Environmental Practices at Kimbriki</a></li> <li>- <a href="#">Project Info Sheet</a></li> </ul>
Climate Science (Year 12)	<b>EES-12-03</b>	Human Influence on Climate Responses to Climate Change	<p><b>Site Bus Tour</b> (gas flare, emissions management, ANL composting)</p> <p><b>Eco Workshop</b> – (4Rs, sustainable management of food waste)</p>	<ul style="list-style-type: none"> <li>- <a href="#">Reducing Greenhouse Gases (Gas Flare)</a></li> <li>- <a href="#">Discussion Starters</a></li> <li>- <a href="#">Environmental Practices at Kimbriki</a></li> <li>- <a href="#">Composting Setup</a></li> </ul>

				- <a href="#">Worm Farm Setup</a>
Sustainability (Year 12)	<b>EES-12-04</b>	Sustainability and Waste Management	<p><b>Site Bus Tour</b> (resource recovery, recycling infrastructure, emissions reduction (gas flare) landfill engineering)</p> <p><b>Eco Workshop</b> – (4 Rs, sustainable living strategies, composting)</p>	<ul style="list-style-type: none"> <li>- <a href="#">Mixed Waste Recycle and Reuse</a></li> <li>- <a href="#">Composting Setup</a></li> <li>- <a href="#">Worm Farm Setup</a></li> <li>- <a href="#">Discussion Starters</a></li> <li>- <a href="#">Environmental Practices at Kimbriki</a></li> <li>- <a href="#">Sustainable Living Principles Videos</a></li> <li>- <a href="#">Water Conservation and Management</a></li> <li>- <a href="#">Reducing Greenhouse Gases (Gas Flare)</a></li> <li>- <a href="#">ESG Document</a></li> </ul>