**STAGE 2 GEOGRAPHY: Natural environments**

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| Focus area: The Earth’s environment | |
| Different environments | Significance of environments |
| Key inquiry questions  * How does the environment support the lives of people and other living things? * How can people use places and environments more sustainably? | |
| Content focus Students:   * explore the climate, natural vegetation and native animals of places in Australia * examine the importance of natural vegetation and natural resources to the environment, animals and people * learn about the ways people value environments, including Aboriginal and Torres Strait Islander Peoples | |
| Outcomes A student:   * examines features and characteristics of places and environments **GE2‑1** * describes the ways people, places and environments interact **GE2‑2** * acquires and communicates geographical information using geographical tools for inquiry **GE2‑4** | |
| Overview The geographical inquiry process will locate the natural vegetation types of Australia, investigate the ways vegetation is used by animals in the environment and the ways people use natural resources.  This learning is shaped by four inquiries, which vary in length. Note: Teachers may need to adjust and scaffold learning activities as appropriate. Teachers can choose whether the inquiries are undertaken by individuals, pairs or groups, or as a whole class. | |
| AssessmentMany of the activities require students to demonstrate their learning. These activities can be used to assess student progress at various stages throughout the inquiry process. | |

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| **Different environments**  Students:   * investigate the natural characteristics of Australia and a country in Asia, for example: [(](http://achgk020)ACHGK020) Description: A-ICON-Asia Australias engagement with Asia * comparison of climate, natural vegetation and native animals **GS VR** Description: A-ICON-Asia Australias engagement with Asia Description: ICT-ICON Description: L-ICON-literacy   **Significance of environments**  Students:   * investigate the importance of natural vegetation and natural resources to the environment, animals and people, for example: [(](http://achgk021)ACHGK021, ACHGK022, ACHGK024) * identification of types of natural vegetation eg forests, grasslands, deserts **VR** | **Inquiry 1 – Natural vegetation of Australia**  Students map and describe the characteristics of the natural vegetation types in Australia.  Note: The syllabus requires an investigation of natural characteristics in Australia and a country of Asia. Examining the natural characteristics of an Asian country forms part of a cultural study of Australia’s neighbours in the focus area *Places are similar and different*. If it is not covered there, repeat Inquiry 1 for an Asian country, e.g. China, and make comparisons between the two countries.  **Acquiring geographical information**  **Question:**   * What are the natural vegetation types of Australia? * Where are the natural vegetation types located in Australia?   **Acquire data and information:**   * Reference a Google **satellite image** of Australia to observe and identify the natural vegetation types in Australia, e.g. forest, woodland. * Reference a **vegetation map** of Australia, e.g. [Australia’s vegetation](https://www.anbg.gov.au/aust-veg/veg-map.html) map by Australian National Botanic Gardens. * Reference the BOM [climate zone map](http://www.bom.gov.au/iwk/climate_zones/map_1.shtml) of Australia. * Observe **photographs** of each vegetation type. * Research **information** to describe each vegetation type. * Research **information** on native animals that are typically found in each vegetation type.   **Processing geographical information**   * View a **satellite image** of Australia, noticing colours. * On a base **map of Australia**, add a mapping overlay to represent the major vegetation types. Add a second overlay to represent the climate zone. Analyse the results. How does climate influence vegetation? * Match **photographs** of each vegetation type to the vegetation types overlay. * Construct a **summary table** of Australian vegetation types, illustrating and describing each type, its location and associated native animals.   **Communicating geographical information**  **Communicate:**  Students create an annotated **map** of the major vegetation types of Australia, plotting and describing each type.  **Respond:**  Students select **images** that promote the aesthetic values of each vegetation type. |

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| **Significance of environments**  Students:   * investigate the importance of natural vegetation and natural resources to the environment, animals and people, for example: [(](http://achgk021)ACHGK021, ACHGK022, ACHGK024) * identification of types of natural vegetation eg forests, grasslands, deserts **VR** * explanation of the importance of natural vegetation to animals and the functioning of the environment eg provision of habitats, production of oxygen **F** Description: S-ICON-Sustainability Description: CCT-ICON-critical creative thinking | **Inquiry 3 – Animal habitats**  **Student-centred inquiry into a natural animal habitat**  Students select their favourite animal, Australian or from another country. They investigate the habitat of the animal and produce a fact sheet describing the importance of the vegetation to the animal which they present to the class, advocating for their animal.  Note: The geographical inquiry process will need to be guided by the teacher.  **Acquiring geographical information**  **Question:**  Inquiry questions should be specific to the animal and habitat selected for investigation, e.g. How does a Jabiru black-necked stork use natural vegetation?   * Where does the Jabiru live? * What are the features of its habitat? * How does a Jabiru use its habitat? * What other plants and animals does a Jabiru interact with and how? * How is the Jabiru and its habitat protected?   **Acquire data and information:**  Support students to access a range of information sources and use a variety of geographical tools to support the geographical inquiry. For example:   * Use a wildlife **fact sheet** or **websites** to identify:   + distribution of the animal   + preferred habitat   + diet   + behaviours (interactions with the environment, breeding) * View **photographs and videos** showing the relationships between animal and the environment. * Access **information** that describes threats to the habitat and measures that protect the animal and its habitat.   **Processing geographical information**  Students use geographical tools to represent, organise and analyse the data and information, for example:   * Plot the distribution of the animal on a **map**. Overlay the vegetation types. * Record and organise the information collected into a **table**. * Represent connections between the animal and specific plants using **illustrated flow charts**. * Construct a **cause and effect chart** explaining threats to the habitat and measures that protect it.   **Communicating geographical information**  **Communicate:**  Support students to draw conclusions on the importance of natural vegetation to the animal. Students create an **illustrated fact sheet** on the animal, describing its habitat, diet, behaviours and other uses of the environment. Students present their animal and its habitat to the class in a creative way, advocating for their animal.  **Respond:**  If only five animals and their habitats were to be protected, determine as a class the five to ‘save’. Students work collaboratively on a **‘SWOT’ analysis** of each animal researched by students. Use strategies to reach consensus on five.  **Resources**  Australian Museum, [Animals](http://australianmuseum.net.au/animals)  [Birds in Backyards](http://www.birdsinbackyards.net)  Field of Mars EEC, [Habitat Multitouch Book](https://itunes.apple.com/WebObjects/MZStore.woa/wa/viewMultiRoom?mt=11&at=10lGCa&ls=1&fcId=989692225)  Field of Mars EEC, [Ringtail Possum Multitouch Book](https://itunes.apple.com/au/book/ringtail-possum/id881338771?mt=13)  **Learning connections:**  *Science and Technology K–6 Syllabus*: Living world (Living things depend on each other and the environment to survive.) |

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| **Geographical concepts** | **Geographical inquiry skills** | **Geographical tools** |
| **Place:** *the significance of places and what they are like* eg natural and human features and characteristics of different places and their similarities and differences; how people’s perceptions about places influence their responses and actions to protect them.  **Space:** *the significance of location and spatial distribution, and ways people organise and manage spaces that we live in* eg settlement patterns within Australia, neighbouring countries and other countries.  **Environment:** *the significance of the environment in human life, and the important interrelationships between humans and the environment* eg how climate and environment influence settlement patterns; interconnections between people and environments; differing ways people can use environments sustainably.  **Interconnection:** *no object of geographical study can be viewed in isolation* eg interconnections between people, places and environments; influence of people’s values on the management and protection of places and environments and the custodial responsibilities of Aboriginal and Torres Strait Islander Peoples.  **Scale:** *the way that geographical phenomena and problems can be examined at different spatial levels* eg types of settlement across a range of scales; the influence of climate across a range of scales.  **Sustainability:** *the capacity of the environment to continue to support our lives and the lives of other living creatures into the future* eg ways in which people, including Aboriginal and Torres Strait Islander Peoples, use and protect natural resources; differing views about environmental sustainability; sustainable management of waste. | **Acquiring geographical information**   * develop geographical questions to investigate  (ACHGS019, ACHGS026) * collect and record relevant geographical data and information, for example, by observing, by interviewing, conducting surveys, or using maps, visual representations, the media or the internet  (ACHGS020, ACHGS027)   **Processing geographical information**   * represent data by constructing tables, graphs and maps  (ACHGS021, ACHGS028) * represent information by constructing large-scale maps that conform to cartographic conventions, using spatial technologies as appropriate (ACHGS022, ACHGS029) * interpret geographical data to identify distributions and patterns and draw conclusions  (ACHGS023, ACHGS030)   **Communicating geographical information**   * present findings in a range of communication forms, for example, written, oral, digital, graphic, tabular and visual, and use geographical terminology  (ACHGS024, ACHGS031) * reflect on their learning to propose individual action in response to a contemporary geographical challenge and identify the expected effects of the proposal  (ACHGS025, ACHGS032) | **Maps –**   * large-scale maps, world map, globe, sketch maps * maps to identify location, direction, distance, map references, spatial distributions and patterns   **Fieldwork –**   * observing, measuring, collecting and recording data, conducting surveys or interviews * fieldwork instruments such as measuring devices, maps, photographs   **Graphs and statistics –**   * tally charts, pictographs, data tables, column graphs, simple statistics   **Spatial technologies –**   * virtual maps, satellite images, global positioning systems (GPS)   **Visual representations –**   * photographs, illustrations, diagrams, story books, multimedia, web tools |