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|  | Australian Curriculum Year 4 Geography sample assessment ׀ Student booklet  Sustaining environments |

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| Image: *Morning in the Amazon*, Mark Goble, Creative Commons Attribution 2.0, <https://flic.kr/p/8XNkq> |

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| Students propose individual actions in response to the geographical challenge of sustaining environments. |
| You will:   * describe the relative locations of places and countries in different continents * compare the characteristics of different environments * represent data and information in tables, maps and in a comparative column graph * interpret data and information to identify patterns, spatial distributions and draw conclusions * propose actions for sustaining environments. |

## Section 1. Describing the location of places

### Complete the table

Identify the location and characteristics of the continents of Australia, Africa and South America.

|  |  |  |  |
| --- | --- | --- | --- |
|  | Australia | Africa | South America |
| **Continent size (km)** |  |  |  |
| **Relative location (i.e. where the continents are located in relation to the equator and each other)** |  |  |  |
| **Number of countries** |  |  |  |
| **Surrounding oceans** |  |  |  |
| **Significant landforms** |  |  |  |

### Complete the world map

1. **Locate and label** these continents:

|  |  |  |
| --- | --- | --- |
| Australia | Africa | South America |

1. **Locate and label** these countries in the continents of Africa and South America:

|  |  |  |  |
| --- | --- | --- | --- |
| Africa | South Africa | Kenya | Tanzania |
| South America | Brazil | Peru | Colombia |

1. Use the following **cartographic conventions** to complete your map:

|  |  |  |
| --- | --- | --- |
| Title | Legend | North point |

1. Use the notes you made in your table to annotate the world map with **descriptions** of each continent. Use an image to support your description.



## Section 2. Comparing environments

Complete the table below to **compare** the environments in different continents.

Use an interactive world map and other information sources to record the characteristics of two environments of the continents of Africa and South America.

**Africa**

|  |  |  |  |
| --- | --- | --- | --- |
| Environment | Climate | Natural vegetation | Native animals |
| **Grasslands** |  |  |  |
| **Rainforest** |  |  |  |

**What are the environmental challenges for Africa?**

|  |  |  |
| --- | --- | --- |
|  |  |  |
| *Springbok, Etosha National Park*, Damien du Toit's photostream, CC BY 2.0, <https://flic.kr/p/hT35r> | *Blyde River Canyon*, Fiona Henderson's photostream, CC BY 2.0, <https://flic.kr/p/7oKP97> | African Buffalo, James Hopkirk's photostream, CC BY 2.0, <https://flic.kr/p/5DMEZP> |

**South America**

|  |  |  |  |
| --- | --- | --- | --- |
| Environment | Climate | Natural vegetation | Native animals |
| **Grasslands** |  |  |  |
| **Rainforest** |  |  |  |

**What are the environmental challenges for South America?**

|  |  |  |
| --- | --- | --- |
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| *IMG\_6346/Brazil/Mato Grosso Do Sul/Pantanal/Giant Antéater/Grand Fourmilier/Tamanoir*, dany13's photostream, CC BY 2.0, <https://flic.kr/p/j4hDiB> | *Golden lion tamarin*, Bart van Dorp's photostream, CC BY 2.0, <https://flic.kr/p/npxmd1> | Amazon rainforest near Puerto Maldonado, Ivan Mlinaric's photostream, CC BY 2.0, <https://flic.kr/p/5RGCpJ> |

**Compare the environments of Africa and South America.**

|  |  |  |
| --- | --- | --- |
| Differences |  | Similarities |
|  |  |

## Section 3. Representing data

Your teacher will help you:

1. Choose **two cities** in different continents that are located in different vegetation zones — one from an African grassland zone and one from a South American rainforest zone.

|  |  |
| --- | --- |
| African cities in grassland zones | South American cities in rainforest zones |
| *Pretoria,* South Africa | *Rio De Janeiro,* Brazil |
| *Nairobi,* Kenya | *Medelleni*, Colombia |

1. Find the **rainfall data** for your two cities in the *Rainfall data sources handout*. Cut and paste or copy the rainfall data into your booklet.
2. Represent this data in a **comparative column graph** like the one below.

**Title**

Example of a comparative column graph

**Vertical axis (*y*)**

**A scale on the y axis that increases by the same amount**

**Horizontal axis (*x*)**

**Intervals of spaces on the *x* and *y* axis**

**Data source:** Commonwealth of Australia 2014, Bureau of Meteorology, Daily rainfall: Perth Metro, CC BY 3.0, [www.bom.gov.au/climate/data/index.shtml](http://www.bom.gov.au/climate/data/index.shtml)

**Date:** 2014 **Source:** Commonwealth of Australia, Bureau of Meteorology

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|  | **Jan** | **Feb** | **Mar** | **April** | **May** | **Jun** | **July** | **Aug** | **Sep** | **Oct** | **Nov** | **Dec** |
| Wellington | 18 | 18 | 17 | 14 | 12 | 11 | 10 | 10 | 12 | 12 | 14 | 17 |
| Suva | 27 | 28 | 27 | 26 | 25 | 25 | 23 | 24 | 24 | 25 | 26 | 27 |

Title:

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Cut and paste or copy your data sources here:

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|  | **Jan** | **Feb** | **Mar** | **April** | **May** | **Jun** | **July** | **Aug** | **Sep** | **Oct** | **Nov** | **Dec** |
| City 1 |  |  |  |  |  |  |  |  |  |  |  |  |
| City 2 |  |  |  |  |  |  |  |  |  |  |  |  |

Check you have included the following **graph conventions:**

* title
* horizontal axis (*x*) labelled with the months of the year
* vertical axis (*y*) labelled with numbers
* a scale on the *y* axis that increases by the same amount (e.g. 5, 10, 15, 20 …)
* intervals of spaces on the *x* and *y* axis.

Describe the **pattern** in the data represented in the graph.

## Section 4. Interpreting data

**To respond to this section you will need use a world map showing distribution of climate and vegetation zones.**

Describe the pattern in the distribution of rainforest in the world represented on the map.

Explain the relationship between the distribution of rainforests and type of climate.

Explain why the world’s rainforests are declining.

Why are rainforests so important to life on Earth?

## Section 5. Proposing actions

Choose an **environmental challenge**, e.g. deforestation or water scarcity.

**Complete** the table to i**dentify** **views** about how individual people can respond to these challenges.

Environmental challenge:

|  |  |  |  |
| --- | --- | --- | --- |
| Location of places affected | Environmental impacts | Current response to the challenge — collective | Possible responses to the challenge — individual |
|  |  |  |  |

Image: *The world through a lens Project 365(2) Day 356*, Keith Williamson, CC BY 2.0, https://flic.kr/p/9cZ7ya

* **Propose an action** that you can take in your life to **respond** to an environmental challenge.
* Consider the **effects** of this action.
* **Present** your findings in a consequence chart.
* **Share** your findings with others.

Consequences chart