

LESSON PLAN

“What impact does climate have on Animal Behaviour?”

Learning Area: Geography	Date: 2 nd May 2012
Topic: Geographic Skills (Savannah Grasslands)	Time: 11.00 – 11.50
Year level: 7 (Christ Church Grammar School)	Duration: 50 minutes
Number of Students: 23	

Learning Outcomes: Students are able to use mapping skills to represent data. They can construct climate graphs and tables to use to interpret mean, median and variability of rainfall for individual stations to forecast climate patterns.

Links to Australian Curriculum: Geographical Inquiry and Skills

Links to Strands: Processing, analysing, interpreting and concluding

Links to Sub-Strands: Select appropriate geographical techniques to retrieve and interrogate data.

Assessment: Observation and interaction during discussion and activity. Graphing worksheet can be used to show geographical skill development.

Preparation: Graph paper

Prior Knowledge: Students have prior knowledge on the different aspects of ecosystems, such as savannah grasslands. Students are in the process of completing a savannah grasslands food web.

Follow up activity: Look at Antarctic ecosystems. Discuss the connections between climate and food webs.

Lesson Evaluation:

Time	Learning Experiences	Resources	Evaluation
10 mins	<p>Warm Up</p> <ol style="list-style-type: none"> 1. Have students enter the class and take out books and pens. Wait for students' attention. Introduce yourself. 2. Revise last class 'food webs' (with interactive website) 	http://www.gould.edu.au/foodwebs/africa.htm	Monitoring
10 mins	<p>Introduction</p> <ol style="list-style-type: none"> 1. Show climate graph. Ask: What do the scales represent? When is the hottest season? Coolest? Wettest? Driest? (Savannah seasons: Long dry (warm) winter and a very wet summer. Not enough rain to support forests.) 2. Think-pair-share: What do these factors have on animal behaviour? Share with class. 3. Create climate graphs for savannah grassland. 	Text: Nelson Geography essentials 1 (p60)	Observation
25 mins	<p>Activity: guided instruction</p> <ol style="list-style-type: none"> 1. At the top of the page, write the title "Savannah Grasslands climate and rainfall". 2. Using a ruler, draw the climate and rainfall table (below). 3. Draw the x-axis (months) and y-axis (climate). Plot the climate data and draw a soft line. Use a bright colour. 4. Draw the z-axis (rainfall). Plot the rainfall data in a bar graph. Shade each bar the same colour. 	Graph paper, whiteboard marker	Graphs
5 mins	<p>Wrap Up</p> <ol style="list-style-type: none"> 1. Have students pack up materials. 2. Ask: When is the wet winter? Dry summer? What part of the world do you think this grasslands data comes from? 3. Homework: (1) Complete the graph; (2) List 5 African and 5 Asian countries with savannah-like climate in some parts. 		Observation

"Savannah Grasslands Climate and Rainfall"

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec
Temperature (*C)	31	30	29	26	21	18	17	23	24	26	30	31
Rainfall (mm)	105	96	50	15	5	12	8	1	3	12	24	38

Reflection: