



# CONSERVATION CALCULATORS

Y3

MATHEMATICS  
SCIENCE  
SUSTAINABILITY

## How many gumnuts does a bobtail weigh?

Your class will explore these and other amazing questions as they become environmental officers in Woodland Reserve. Using their measuring and weighing skills, your students will see how we use maths at Whiteman Park to look after our quenda and critically endangered woylie populations.

In this program, your Year 3 students will:

- ✓ Practise measuring in centimetres and weighing in grams.
- ✓ Apply practical maths skills in an outdoor setting.
- ✓ Learn about some local native animals.
- ✓ Understand how and why rangers look after our animals and bushland.

## WHAT TO EXPECT



The session begins in the Woodland Interpretation Centre with a short video introducing Woodland Reserve at Whiteman Park and the work of the Park's Environmental Officers.



*What is a woylie? What is a quenda?* Using our taxidermy specimens, the class will learn more about these natives.



Time to prepare food for our animals! Using their cutting and measuring skills the class will prepare food bowls for the Reserve's woylies and quendas in groups.



Moving in to Woodland Reserve, students will meet one of our education animals, Kate or Bart. Using informal and formal measurements they will be weighed and measured, with assistance from the students.



In small groups, the students will role play being environmental officers using stuffed animals to weigh and measure woylies and quendas. A class feedback session will compare results and discuss why we record this information about the animals in the Reserve.



Using informal measurements and comparisons, the whole class will use sticks to build a pyramid shaped shelter for the wildlife.



<b>Cost</b>	\$6.00 per child
<b>Availability</b>	Monday to Friday
<b>Duration</b>	60 mins
<b>WA Curriculum Links</b>	<ul style="list-style-type: none"><li>■ Mathematics: ACMMG061</li><li>■ Science: ACSSU044</li><li>■ Sustainability: O1.2 – O1.9</li></ul> <i>See over for details.</i>

### Important information:

- Parent helper assistance is required for individual groups.
- This program has outdoor elements. Weather appropriate clothing and enclosed shoes are required by all participants.



## WA CURRICULUM LINKS

### MATHEMATICS

#### Measurement and Geometry

#### Using units of measurement

Measure, order and compare objects using familiar metric units of length, mass and capacity (ACMMG061).

### SCIENCE

#### Science Understanding

#### Biological Sciences

Living things can be grouped on the basis of observable features and can be distinguished from non-living things (ACSSU044).

### SUSTAINABILITY

#### Organising Ideas

#### Systems

**01.2** All life forms, including human life, are connected through ecosystems on which they depend for their wellbeing and survival.

**01.3** Sustainable patterns of living rely on the interdependence of healthy social, economic and ecological systems.

#### World Views

**01.4** World views that recognise the dependence of living things on healthy ecosystems, and value diversity and social justice, are essential for achieving sustainability.

**01.5** World views are formed by experiences at personal, local, national and global levels, and are linked to individual and community actions for sustainability.

#### Futures

**01.6** The sustainability of ecological, social and economic systems is achieved through informed individual and community action that values local and global equity and fairness across generations into the future.

**01.7** Actions for a more sustainable future reflect values of care, respect and responsibility, and require us to explore and understand environments.

**01.8** Designing action for sustainability requires an evaluation of past practices, the assessment of scientific and technological developments, and balanced judgements based on projected future economic, social and environmental impacts.

**01.9** Sustainable futures result from actions designed to preserve and/or restore the quality and uniqueness of environments.



Whiteman Park

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