## ADOPT A BUSHLAND

NAME

DATE

STUDENT ACTIVITY

## **BUSHLAND WEEDS**





Ecologists will carry out surveys to estimate the population of a species such as how many weed species there are in an area. Two common methods used to carry out surveys are the use of transects and quadrats.

A transect is a straight line along which observations are made. It can be long distance (200m) or a shorter distance (20m). One metre intervals are marked along the rope with coloured tape. The number of organisms or objects are observed and recorded at the one metre marks. Transects provide information on the distribution of species in an area.

A **quadrat** is a **square or rectangula**r plot of land marked off for the study of plants and animals. Several quadrats are randomly placed within a given area. Quadrats indicate the local distribution of plants or animals.

In your groups you will complete one 20m transect and three quadrats. Only count the number of weeds. Wherever possible identify the different types of weeds.

## Results

QUADRAI 1	
Location:	
Weed Type (if unknown write a description or label as 'unknown')	Number (record as a tally)

QUADRAT 2	
Location:	
Weed Type (if unknown write a description or label as 'unknown')	Number (record as a tally)
QUADRAT 3	
Location:	
Weed Type (if unknown write a description or label as 'unknown')	Number (record as a tally)

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QUADRAT 3	
Location:	
Weed Type (if unknown write a description or label as 'unknown')	Number (record as a tally)

## **Transect Data**

Write the scale onto the transect starting with 0m and finishing with 20m. At each 1m mark record the **type** and **number** of weeds found.

Location (of transect)	

Collate the classes' results and complete the table below.

Type of Weed	Number of Weeds
ype or weed	Number of Weeds
estions: Draw a bar graph to represent the quadrat data.	
Oraw a bar graph to represent the quadrat data.	/ found?

6. Did certain areas have different weeds? Why do you think that is?	
7. Is there any evidence of how weeds have spread into the bushland?	
8. What can you do to prevent weeds from entering the bushland?	
Conclusion	
(Write a concluding paragraph which sums up the results. Remember a conclusion is always wr in third person - no I, we, you, us).	ritten

(A)