**Year 11 Biology ATAR – Unit 1**

**Task 2 – Part A: Population Dynamics**

**Conditions**

Period allowed for completion of the task:

* 2 In class lessons research and discussion in class
* 50 minutes to respond to questions in class under invigilated conditions.
* Task Weighting: 10% of the school mark for this pair of units

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**Population dynamics**  **(20 marks)**

Read the Landscope article 'Down but not out: solving the mystery of the woylie population crash' written by Samille Mitchell and Adrian Wayne. [Landscope 23 (4) 2008]

Use the following questions to focus your reading:

1. What is a woylie?

2. Where does it live?

3. Briefly describe all of the relationships the woylie has with other organisms.

4. What factors (abiotic and biotic) might threaten the survival of the woylie?

5. Describe two of the conservation measures taken that helped to increase the woylie population from the 1970s to 1996.

6. Describe three measures that have been taken to understand the decline of the woylie population since 1996.

7. Name two possible causes for the decline of the woylie since 1996.

8. Why should we try to save the woylie?

Discuss these questions with other members of your group. You may wish to do further research on woylies. Enter ‘Landscope woylie' into a search engine to access other information.

You will be asked to answer extended answer questions as an in-class assessment. These questions will allow you to show your understanding of population dynamics in woylie populations but will not be exactly the same questions that you have prepared.