



Pathfinder Honour: Workbook

Ecology 1



Name:

Club:

Date Started:

Date Completed:

Instructor Name:

Signature:

Club Director's Name:

Signature:

Please Award Patch:

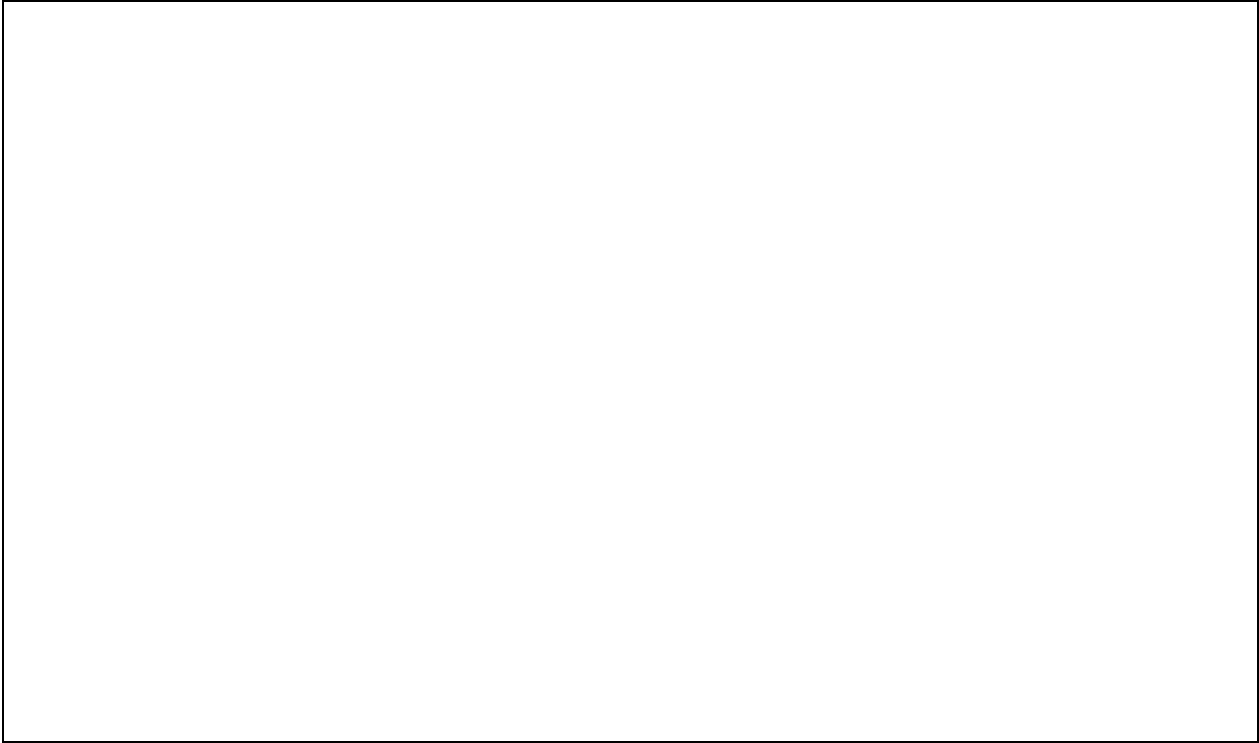
Date:

To be signed by Authorised Person (ie District Director for Pathfinders) after satisfactory completion. Leaders, please see the Assessment Sheet for a checklist of practical requirements and a short test to check knowledge of honour.

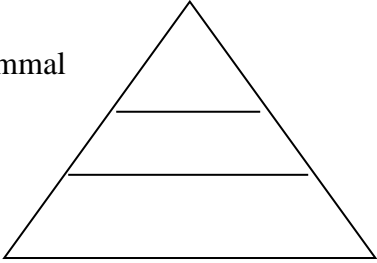
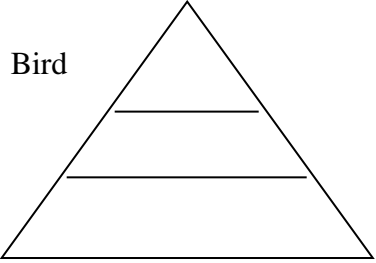
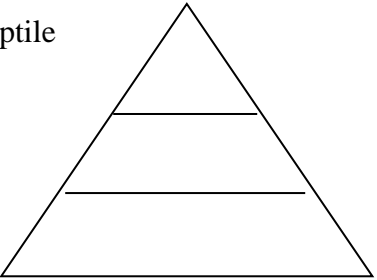
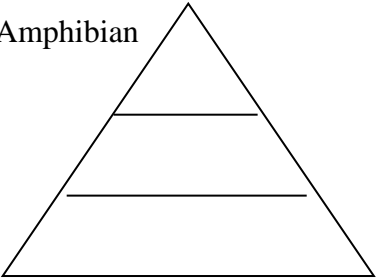
Date Patch Presented

Ecology 1 Honour

Requirement 1 Construct a diagram of a fresh-water pond ecosystem.



Requirement 2 Pick one mammal, one bird, one reptile, & one amphibian from your home environment and for each construct a diagram of its ecological pyramid.

Mammal		Bird	
Reptile		Amphibian	

Ecology 1 Honour

Requirement 3 Know the meaning of the following terms:

[Please write brief notes under the following headings]

a.	Ecology	
b.	Plankton	
c.	Community	
d.	Conservation	
e.	Food chain	
f.	Climax community	<i>Not required by South Pacific Division</i>
g.	Commensalism	
h.	Eutrophication	
i.	Ecological succession	

Ecology 1 Honour

Requirement 4 Make detailed field observations and library book / internet study of the habitat of some small animal in your own environment. Write a report; one-half from your field observations and one-half from your book / internet study. Length about 500 words.

Observation Log			Animal Observed:		
Date:					
Time:					
Location:					
Notes on Observations					
Observation Report					

Ecology 1 Honour

Requirement 5 Define an ecosystem and state what the basic biological and physical factors are that keep it a balanced system.

[Please write brief notes under the following headings]

Definition of an ecosystem	
How an ecosystem works	
What keeps an ecosystem in balance?	
Additional information on ecosystems:	

Requirement 6 Investigate the disposal of garbage in your community. How much is disposed per family per day? per week? per year? How better can it be taken care of?

How garbage is disposed in your community:			
Garbage disposed per family:	Amount Disposed		Source of information
	Per day		
	Per Week		
	Per Year		
Better ways of disposing garbage:			

Ecology 1 Honour

Requirement 7 Check your nearest large city for one month for its air pollution level. Plot a curve for this level on a graph for the month. Find out what caused the peaks in your curve.

City name:	Country	
Cause of peaks in pollution levels:		
Graphs: [Can be sketched below, or done on separate graph paper or computer program ie Excel]		

Requirement 8 List ten ways in which you might actively work to improve the environment in which you live. Put four of these into practice.

	<u>Possible ways to improve your local environment</u>	<u>Ways put into practice (briefly describe)</u>
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

Ecology 1 Honour

Requirement 9 Find a Spirit of Prophecy quotation and a Bible text pertinent to ecology and be able to explain their relevance and application to our day.

	Quotation / text	Reference
Spirit of Prophecy quotation:		
Bible text:		
Relevance and application to our day:		