

North England Conference of Seventh-day Adventists

Pathfinder Honour: Workbook



Ecology 1



Name:	Club:	
Date Started:	Date Completed:	
Instructor Name:	Signature:	1.000
Club Director's Name:	Signature:	
Please Award Patch: To be signed by Authorised Person (i.e. Distric satisfactory completion. Leaders, please see the A practical requirements and a short test to check kno	ssessment Sheet for a checklist of	
	Date Patch Presented	; ; ; ; ;



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.



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_	[Please write brief notes under the following headings]			
a.	Ecology			
b.	Plankton			
c.	Community			
d.	Conservation			
e.	Food chain			
f.	Climax community	Not required by BUC		
g.	Commensalism			
h.	Eutrophication			
i.	Ecological succession			
j.	Biome			

Requirement 3 Know the meaning of the following terms:

British Union Conference of SDA Document name: *ecology workbook* Compiled: Aug 08, J Sommerfeld, S Qld Conf. Updated: Sept 2020, H. Jackson, BUC Honour Committee.

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.

Obser	vation Log	Ani	mal Observed:	
Date:				
Time:				
Location:				
Notes on	Observations			
Observat	ion Report			



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

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	Amount Disposed		Source of information
disposed per family:	Per day Per Week Per Year		
Better ways of disposing garbage:			

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/town name:	Country		
Cause of peaks in pollution levels:			
Graphs: [Can be	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.

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

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

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