



Pathfinder Honour: Requirements & Framework

Ecology 1

Part of Nature Category of Honours

Honour Patch



Part of Conservation Master Honour



Snapshot of Honour

This honour deals with the world in which we live and what we can do to make our natural environment a better place to live.

You'll learn about ecosystems, ecological pyramids and ecology terms such as 'community', 'ecology', 'food chain', 'conservation', 'ecological succession' and - wait for it - 'eutrophication'!

Then there's the hand-on parts of constructing a diagram of a freshwater-pond ecosystem, observing an animal, monitoring big-city pollutants and helping improve our environment.

Finally, you'll reflect and discuss what the scriptures have to say on this subject.

Honour History:

Original Honour: 1972, Author not known.

General Conference: Reviewed 2001

South Pacific Division : Reviewed: August, 2000

- Reviewed: Simon Barker, South Queensland Conference

Ecology 1 Honour

Honour Framework: [Compulsory items are underlined. Others are for guidance]

#Skill Level:	Level 2
<u>Pre-requisites:</u>	Nil
Preparation Time:	Average (4-8 hrs)
Physical Requirements:	Minimal
Equipment/Materials Required:	
Location:	Indoors; Outdoors; Excursion etc
Sabbath Appropriate:	Can be adapted
<u>Safety & Legal Requirements:</u>	Refer to Local/State Requirements. All duty of care must be complied with.
Links to P/F Curriculum: (Cards, Speciality, Pursuits), or AO Modules	
Suggested Teaching / Presentation method(s):	Presentation and Discussion; Practical application;
Recommended Assessment:	Workbook & Assessment Sheet which has a checklist of practical requirements and a short test to check knowledge of the honour.
List of Resources:	See Trainer's Notes

#Skill Level. A General Conference term which broadly describes typical physical and mental development. Level 1 (Friends, Companions); Level 2 (Explorers, Rangers); Level 3 (Voyagers, Guides)

Honour Components:

Requirements:	See following page
Trainer's Notes:	Ecology 1 Honour Trainer's Notes
Student's Workbook:	Ecology 1 Honour Workbook
Assessment Sheet:	Ecology 1 Honour Assessment (On SPD Honour Website but Leader's level access is required)

Ecology 1 Honour

Requirements

Source: General Conference of SDA, 16 August 2008.
<http://youth.gc.adventist.org/Docs/Nature/Ecology%20Small.doc>

Note: Any Additional South Pacific Division (SPD) Requirements are in italics.
~~Strikethroughs~~ show parts not required by SPD.

1. Construct a diagram of a fresh-water pond ecosystem. ~~with pasted-on animal cutouts.~~
2. Pick one mammal, one bird, one reptile, and one amphibian from your home environment, and for each construct a diagram of its ecological pyramid.
3. Know the meaning of the following terms:
 - a. Ecology
 - b. Plankton
 - c. Community
 - d. Conservation
 - e. Food chain
 - f. ~~Climax community~~
 - g. Commensalism
 - h. Eutrophication
 - i. Ecological succession
 - j. ~~Biome~~
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 ~~700~~ 500 words.
5. Define an ecosystem and state what the basic biological and physical factors are that keep it a balanced system.
6. Investigate the disposal of ~~trash~~ garbage in your community. How much is disposed per family per day? per week? per year? How better can it be taken care of?
7. Check ~~the daily paper of your~~ nearest large city for one month for ~~the its~~ air pollution level. Plot a curve for this level on a graph ~~paper~~ for the month. Find out what caused the peaks in your curve.
8. List ten ways in which you might actively work to improve the environment in which you live. Put four of these into practice.
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.

General Conference Reference No: ECOLOGY (YOU5480)