



# Pathfinder Honour: Workbook

## Geology 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

# Geology 1 Honour

**Requirement 1: Give the geological meaning and examples of the following words:**

	<u>Geological Meaning</u>	<u>Example</u>
a.	Delta	
b.	Sand spit	
c.	Sinkhole	
d.	Oxbow lake ( <i>ie billabong</i> )	
e.	Moraine	
f.	Cirque	
g.	Mesa	
h.	Alluvial fan	
i.	Anticline	
j.	Syncline	

**Requirement 2: Describe the following:** Please use brief notes and sketches / pictures.

a.	A shield volcano as compared to a composite volcano.	
b.	How a glacier moves and what evidences it leaves behind.	
c.	How sediments are laid down by water.	
d.	The different types of mountains.	
e.	Why a river or stream bank often keeps caving in on the outside of a bend.	

# Geology 1 Honour

**Requirement 3** Know what category (sedimentary, metamorphic, or igneous) the following rocks are and give locations or examples:

<u>Rock</u>	<u>Sedimentary, metamorphic, or igneous</u>	<u>Locations or examples</u>
a. Granite		
b. Sandstone		
c. Conglomerate		
d. Slate		
e. Shale		
f. Marble		
g. Lava		
h. Limestone		
i. Basalt		
j. Gneiss		

**Requirement 4:** Take a picture, download a picture from the internet or make a sketch of each of the following geological features:

a. A bed of sediment

b. Ripple marks in sand or mud.

c. Gulley erosion

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d. Mud cracks.

e. Soil profile: stream bank / road cut.

f. Sand bar.

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# Geology 1 Honour

**Requirement 5: Describe / photograph / sketch a local geological feature and explain its significance.**

Name:		Location:	
Description / photograph / sketch:			
Significance:			