



Quest for the  
South Magnetic  
Pole  
Expedition Book

Name: \_\_\_\_\_

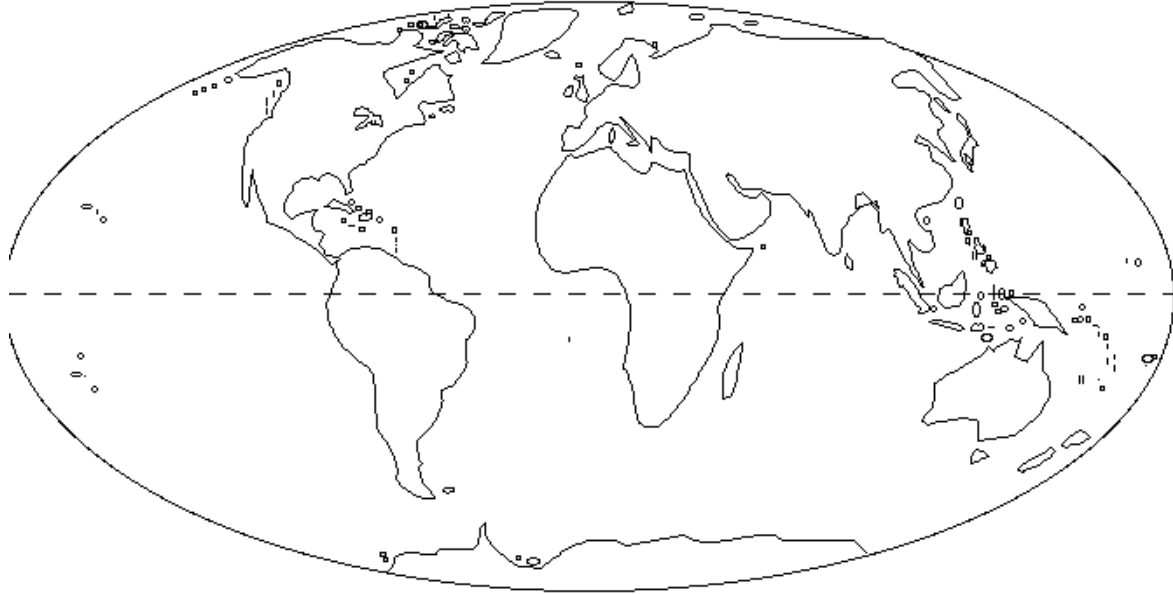
For over 150 years a deadly and freezing race has been played out in the southern extremities of our planet. Using sailing ships and sledges scientists and explorers have ventured into the hostile and frozen environment of Antarctica in search of the South Magnetic Pole.

Today you will join the quest but be warned.....

- \* The conditions are extremely harsh and blizzards and violent winds are a regular occurrence.
- \* The South Magnetic Pole is constantly moving.
- \* After 150 years of exploration the South Magnetic Pole was finally reached in the year 2000.

Good Luck and may your quest be a successful one!

# Where in the World?

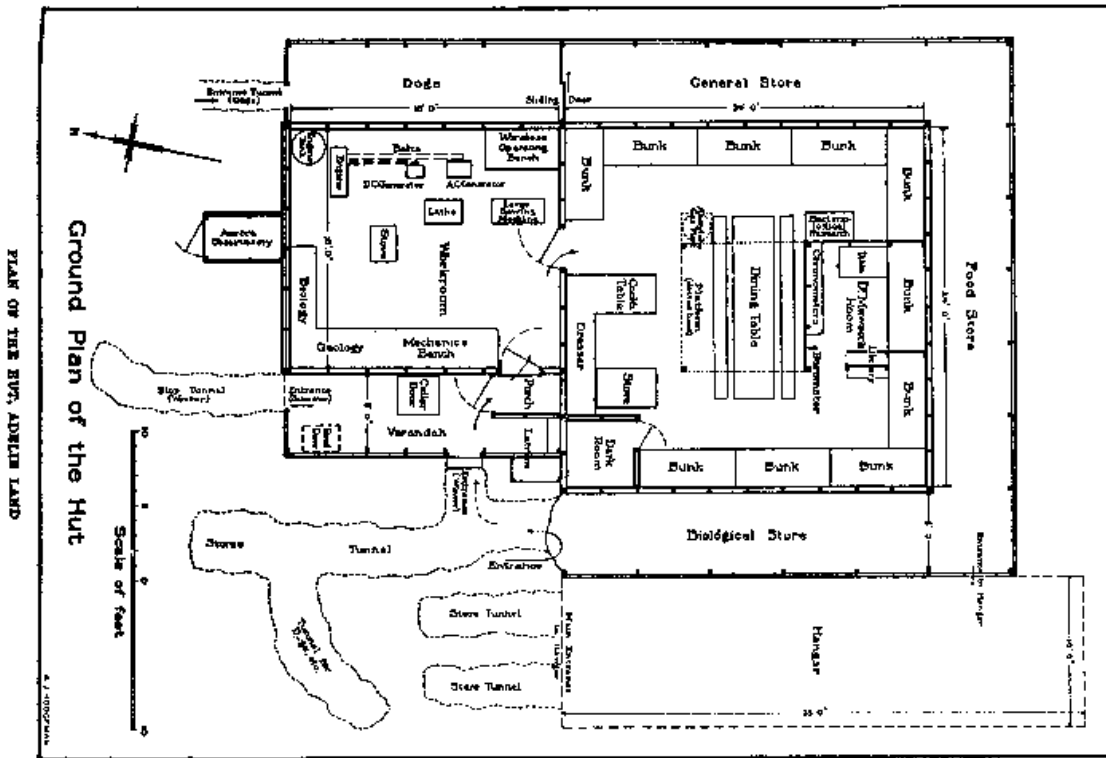


Label Antarctica on the world map

Look closely at the map of Antarctica on the wall in the exhibition. Mark in some of the key features and places



# Home Sweet Home



Have a close look at the model of Mawson's Hut. Mark on the plan where you think the following activities would have been carried out:-

- \* Repairing harnesses
- \* Boiling down seal blubber for the dogs
- \* Developing photographs
- \* Comparing notes in the well stocked library
- \* Updating diary entries
- \* Celebrating birthdays with a feast of curried and spiced seal with delicately fried penguin
- \* Leaving the hut



# Survival

Find the tent in the exhibition. As you look inside and listen to the excerpts from Frank Hurley's diary make a list of problems endured by the expedition party and strategies they used to survive the conditions.

Problems	Strategies

A decorative border of small, stylized snowflakes surrounds the text. The snowflakes are arranged in a grid-like pattern, with a row at the top, a row at the bottom, and vertical columns on the left and right sides.

## Your Mission

To complete your mission you must carry out the following tasks:-

- \* Use the stereoscopes and view Antarctica in 3D

- \* Enter the Ross Theatre and experience a frozen world

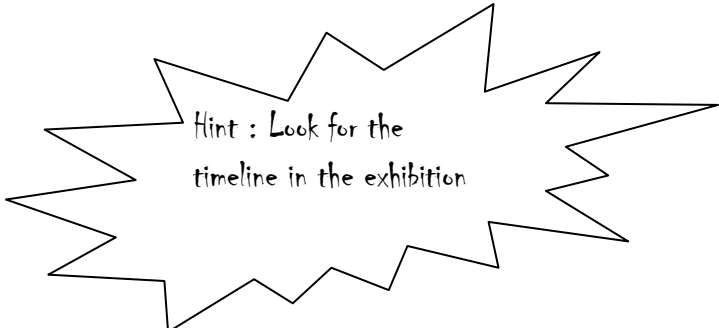
- \* Find the Pulley Hauley. Put the harness on and imagine hauling a fully laden sledge over slippery ice during a blizzard

# When and Where

Use the information in the exhibition to place these events in chronological order.

Number the events from 1 to 10 with 1 being the event which happened first.

What Happened?	Number 1 to 10
Explorer James Clark Ross reaches the North Magnetic Pole	
The Northern Sledging Party comes within 150 kilometres of the South Magnetic Pole during Shackleton's Nimrod expedition	
Captain James Cook becomes the first European to circumnavigate Antarctica	
Scientist Charlie Barton reaches the South Magnetic Pole	
Carsten Borchgrevink becomes the first to spend winter in Antarctica	
Scientist William Gilbert proposes the idea that the earth is a giant magnet	
George Wilkins is the first to fly over Antarctica	
Matthew Flinders discovers that the metal on a ship distorts compass readings	
Douglas Mawson leads the Aurora Expedition	
Robert Scott leads an expedition which reaches the furthest south	



Hint : Look for the timeline in the exhibition

# Check it Out

Find the fluxgate magnetometer system used by Charlie Barton to locate the South Magnetic Pole. Sketch it below:-



Can you find out:-

\* What is hoosh?

\* What are the sleeping bags in the tent made from?

\* Find the ship's binnacles. Why do they have metal attached to them?

\* What was the name of the first publication to be produced in Antarctica?

\* What are crampons?

# Lucky Dip

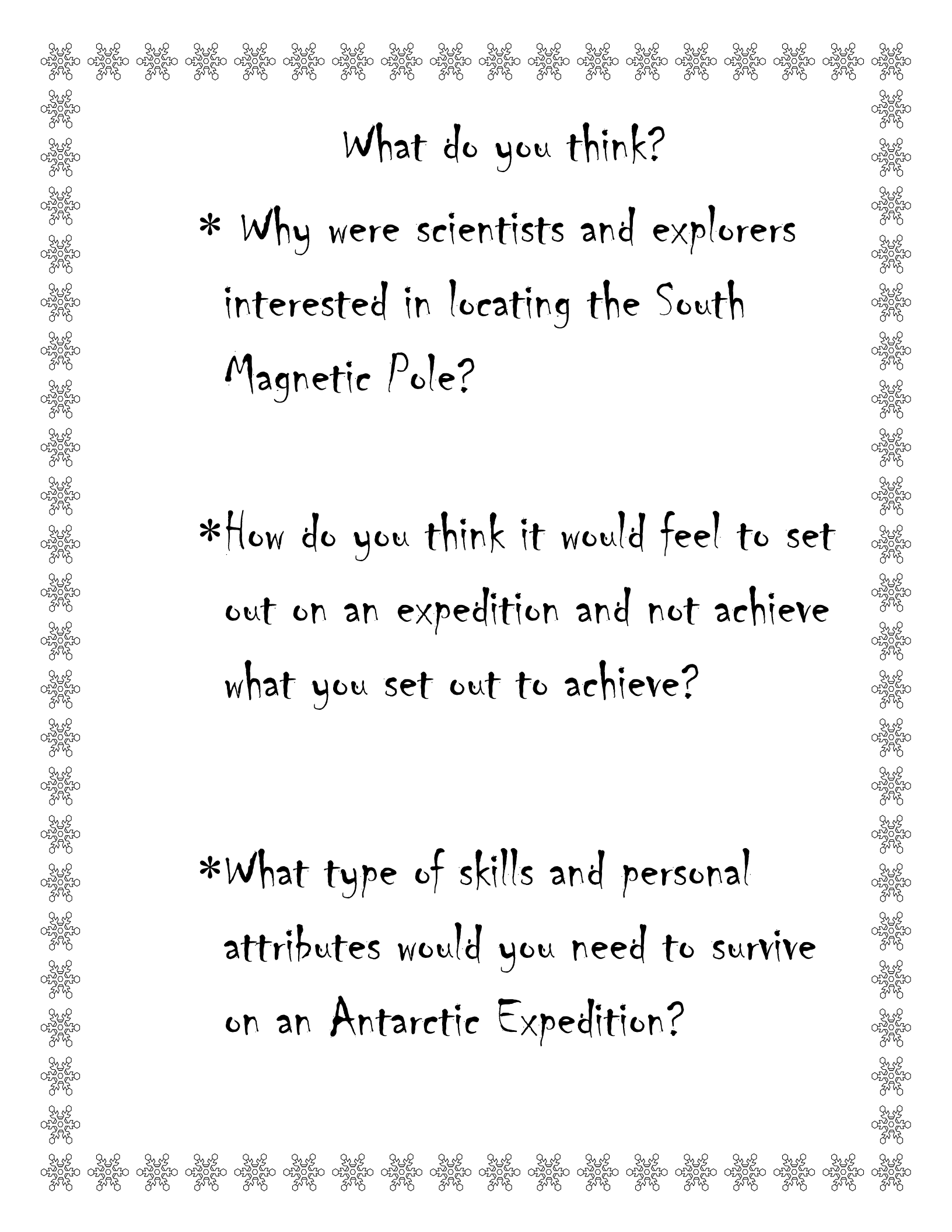


You have almost completed your quest.

Read the information on the Lucky Dip interactive and use the magnaprobe to find the South Magnetic Pole

Mark the South Magnetic Pole on the map of Antarctica.

Describe the magnetic pole in your own words. What is it and how do you know when you have reached it?



What do you think?

\* Why were scientists and explorers interested in locating the South Magnetic Pole?

\* How do you think it would feel to set out on an expedition and not achieve what you set out to achieve?

\* What type of skills and personal attributes would you need to survive on an Antarctic Expedition?