

CLASSROOM ACTIVITY Understanding Exploration

Investigate the history of exploration in Antarctica using the school resource center or library. Topics are listed below; your teacher will ask you to choose from these topics or will designate a topic for your team. Write your team's research topic and the due date in the space below and in your own journal.

TOPIC_	C		DUE DATE					
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After you have completed the activity, respond to these questions in your journal.

- ► What were the different motivations for exploration? How did the motivations affect the outcome of exploration efforts?
- ► What were the most important technologies in the advancement of Antarctic exploration?

POSSIBLE TOPICS

GROUP	TOPIC	EXPLORERS		
1	First Explorers	Ancient Greeks Early Asian explorers	Vikings Whalers, seal hunters	
2	Explorers of 1700's and 1800's	James Cook Bull, Borchgrevnik, an	Nathaniel Palmer d Kristensen	
3	Explorers of early 1900's	Robert Falcon Scott Sir Vivian Fuchs	Roald Amundsen	
4 Explorers of mid 1900's		Richard E. Byrd Sir Douglas Mawson Sir Ernest Henry Shackleton		
GROUP	TOPIC	ANTARCTICA TODAY		
5	Antarctica Today	International Geophysical Year Antarctic Treaty		
GROUP	TOPIC	TECHNOLOGICAL ADVANCES		
6	Travel	Compass Sextant	Astrolabe Chronometer	
7	Travel	Dog sleds Steam engine Airplane	Motor sledge Ice breaker ships	
8	Communication	Radio Photography	Telephone	
9	Food and Clothes	Synthetic fibers Friction matches	Canning Rucksack frame	
10	High Tech Technology	Electricity Computer Global Positioning Sys Automatic Weather St	, ,	

ANTARCTICA

the farthest place close to home

PUTTING ANTARCTICA ON THE MAP



Understanding Exploration

GROUP WORKSHEET 1
ANTARCTIC TEAM ___

GROUP MEMBERS	
CAPTAIN	NOTE TAKER
1. Discuss the following: What might a	an explorer in Antarctica need to survive and conduct good research?
2. Consider your discussion as you fra	ame your group's research. Your team will work together to shed light
on one aspect of exploration; either Each team member researches one research projects as part of a group	r a group of explorers or a particular type of technological advance. s of the sub-topics listed under your topic. Then use your individual p presentation. Divide the sub-topics and write your individual pelow and in your own journal. Use Worksheet #2 after completing
NAME OF TEAM MEMBER	RESEARCH TOPIC
3. What questions do you have about	your group topic and individual topics?

PUTTING ANTARCTICA ON THE MAP



Understanding Exploration

GROUP WORKSHEET 2
ANTARCTIC TEAM ___

Congratulations on completing your individual research assignments. You and your team are ready to draw conclusions and plan your presentations. Choose a captain and a note taker for today. The captain makes sure everyone participates and writes a progress report and the note taker takes notes on this sheet.

APTAIN	NOTE TAKER
Your teacher may ask each student to comative piece. Be aware of any special require them in your notes or your journal and in	plete additional assignments, such as a written essay or creements for individual team members before going on. Write the space below.
sub-topics. Take a few minutes for each te	ether. This presentation will find a connection between all the am member to discuss his/her research. Take notes on your
discussion in the space below.	
NAME OF TEAM MEMBER	MAJOR RESEARCH FINDINGS
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Understanding Exploration

GROUP WORKSHEET 3
ANTARCTIC TEAM ___

3. Examine the major research findings that you have listed on the chart. What connections do you see between them?

4. Plan your presentation. Using the connections you discovered, write down the major points you will cover in the presentation. Each team member presents his/her major findings in a presentation of 3–5 minutes. Remember to explain clearly how all of your presentations are connected. You can do this with an introduction, with some connections in between or during each individual presentation and with a conclusion. Write down the major points for an introduction and conclusion below. Indicate who will be responsible for presenting these parts of the presentation.

5. Each team member creates a visual display about his/her research topic. The team can also prepare a visual display that shows the connection between your topics. Explain what you will prepare in the space below.

NAME OF	DESCRIPTION OF	EXPLANATION/PURPOSE
TEAM MEMBER	ILLUSTRATION	FOR ILLUSTRATION

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GROUP WORKSHEET 4 ANTARCTIC TEAM

- 6. Finalize your notes by writing a general script for your presentation. Do not read your presentation. Instead, use notes that will help you present your findings in a clear and professional way without reading. Listed below are some questions that might help you structure your presentation.
 - ► When was the technology invented?

 - How did this technology advance exploration in Antarctica?
 What motivated this explorer? Why did he travel to Antarctica?
 - ► What technologies did this explorer have available?
 - ▶ To what area of Antarctica did this explorer go? How did technology make it possible?
 - ▶ Why were there no female explorers in Antarctica until recently?
- 7. Use the space below to write the outline (or general script) of your presentation.

GROUP DYNAMICS

Comment on how each group member participated in this activity.