



VOLUNTEER ACTIVITY 4

Where in the World is the Polar Bear?
Corresponding Lesson: 1 - Geography

Activity Type: Game (Geography Hunt)
Grades: 4-6

Time: 15-20 mins,
including DVD
Cost: \$, Low/Printing

Materials

- **Map or printed Arctic Circle map - 1 per group and Large map for the front (see if teacher has large map in class room).**
- **Internet - sites for Latitude and Longitude (<http://www.mapquest.com/maps/latlong.adp>)**
- **Student Clue Sheet**
- **Master Clue Sheet**
- **Polar Card Activity Guide for Educators**
- **Arctic Polar Bear DVD**
- **Polar Cards**

Before Your Visit:

Review Volunteer Presenter Checklist, "Talking To Students About Global Warming" Online Presentation, and the set of Polar Cards.
Download and print Volunteer Master Clue Sheet.
Download and print five copies of the Arctic Map.
Download and print out student clue sheet - 2 per group .
Take DVD, Polar Cards, and Polar Card Activity Guide for Educators.

In the Classroom:

Introduce yourself
Sample script:

Good morning students, I am very excited to be here today. My name is Mr./Ms. X and today we're going to explore the Arctic Circle.

Introduce activity using these talking points:
(Remember to ask students to raise hands to answer)

- How many of you know where Polar Bears live?
(Clarify that polar bears only live in the Arctic, not the Antarctic. And penguins only live in the southern hemisphere and Antarctica.)
- What is it like there?
- How many of you know where the Arctic circle is? How about the North Pole?
- Why do you think polar bears live where it is cold?
(Discuss how they have adapted to life in this cold environment with their large paws, thick fur, blubber under their skin. Their favourite food, seals, also live here and are high in body fat, which polar bears need to keep warm.)
- Today we are going to find four specific locations where polar bears live by following clues and exploring with maps.

Instructions:

1. Divide the group into four teams. Give each group an Arctic map and a clue sheet which will lead them to the location of their polar bear.
2. Note: Your key answer sheet will have the same clues plus a bonus one if the students are getting stuck - latitude and longitude degrees.
3. Provide the latitude and longitude only if they need it.
4. Give each group 6-7 mins to locate their bear.
5. Once each group has located their bear, have them cut out the Global Warming Crusade marker on their clue sheet and paste it on their map, marking the location of their bear.

Group One: Polar Bear is located in Churchill, Canada.

Group Two: Polar Bear is Located in Spitsbergen, Norway.

Group Three: Polar Bear is located in Tasiilaq, East Greenland

Group Four: Polar Bear is located in Barrow, Alaska.

Bonus: All the groups work together on this one since it is hard - Severnaya Zemlya Islands - Siberia.

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(Continued from page 1)

Wrap Up:

- Hold up the map so the whole group can see where the bears are located.
- Ask the following question:
 - Are the bears all on the same latitude?
- Highlight the fact that bears have wide ranges of habitat but all need similar habitat features to live – cold water, ice, good food source and places to raise their young.
- As the planet is getting warmer due to Global Warming, ice is melting, water is getting warmer and food sources are becoming less.
- Students can track some tagged bears by visiting:
www.polarbearsinternational.org/beartracker
- Explain that Global Warming is a HUGE issue and that adults are working on the solutions. But, everyone can help by making a difference for wildlife in their own backyard or neighborhood.
- Explain that their teacher will be talking to them about Polar Bears, Global Warming and providing ideas of what you can do at home or at school to help reduce global warming right here.
- Clean up any materials or handouts.



VOLUNTEER ACTIVITY 4

STUDENT CLUE SHEET

Directions: Print out each groups clue sheet (individually) and provide at least two copies to each group.

Group 1: Where is the Polar Bear

I live in North America.

I live in the country which lies north of United States.

I live in a town located in the providence of Manitoba.

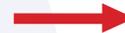
I can live near a very large bay that was named after an early explorer whose first name was Henry.

Although not named after this gentleman (famous prime minister of England during World War II), the town I live near has the same name.

Other wildlife come to visit or live in my same town, including hundreds of Beluga whales that migrate through the river, and over 150 kinds of birds that migrate and stay to nest in the summer.

Where is the Polar Bear?

Cut the polar bear out and use her to mark your spot



CUT HERE

Group 2: Find the Polar Bear

I live north of the United States, east of Greenland, north of Finland.

The people who live here speak Norwegian, since this land is part of Norway.

My home is part of an archipelago (an island chain) called Svalbard and I can be seen on the largest island.

Some of the other wildlife that live here with me include, walrus, bearded, ringed and harp seals, beluga whales, bowhead whale, reindeer, and Arctic foxes.

The largest settlement on my island is called Longyearbyen and it is the world's most northerly town.

Where is the Polar Bear?

Cut the polar bear out and use her to mark your spot





VOLUNTEER ACTIVITY 4

STUDENT CLUE SHEET

Directions: Print out each groups clue sheet (individually) and provide at least two copies to each group.

Group 3: Find the Polar Bear

I live in a country that is considered part of North America but it is not the United States, Canada or Mexico.

I live in the country which lies northeast of United States and northeast of Canada.

Where I live, the people may speak Danish or English but neither are the official language.

The native people here are called Inuit and call me Nanuk.

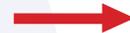
I live on the largest island (that is not called a continent) in the world.

I can be seen, occasionally, in six settlements (Tasiilaq, Kulusuk, Kuummiut, Sermiligaaq, Tingtillaaq, and Isortoq) of the largest District in this country.

Many different whale speices live in the waters where I fish and swim including fin whales, blue whales, humpbacks, narwhal, white whales, lesser rorquals, sperm whales and pilot whales.

Where is the Polar Bear?

Cut the polar bear out and use her to mark your spot



CUT HERE

Group 4: Find the Polar Bear

I live in North America and I am in the United States.

The State that I live in is the largest state in the United States.

The town which I live near is located on the Arctic Ocean between the Chukchi and Beaufort Sea.

I live near the North Slope Borough.

Some of the wildlife that live where I do include bowhead, gray, orca and beluga whales that migrate near here each summer.

Some of the other names my town has had include Nuwuk and Utkiakvik.

I live near the northern-most community in the United States.

Where is the Polar Bear?

Cut the polar bear out and use her to mark your spot





VOLUNTEER ACTIVITY 4

STUDENT CLUE SHEET

Directions: Print out each groups clue sheet (individually) and provide at least two copies to each group.

Bonus: Find the Polar Bear (Entire Classroom Completes)

I am living east of Finland, north of Germany and north central in Russia.

I live on a series of islands located off the Taymyr Peninsula.

The bodies of water that surround where I live are the Vilkitskogo Strait, the Kara Sea and the Laptev Sea.

The island I live on translates to "North Land".

The four main islands that I can live on are: October Revolution, Bolshevik, Komsomolets and Pioneer.

Where is the Polar Bear?

Cut the polar bear out and use her to mark your spot



CUT HERE



VOLUNTEER ACTIVITY 4

STUDENT CLUE ANSWER SHEET

Reminder: Student Clue sheets do not contain the latitude or longitude clue. This is a clue you can give if they are getting stuck.

Group 1: Where is the Polar Bear Answer: *Churchill, Canada*

- I live in North America.
- I live in the country which lies north of United States.
- I live in a town located in the providence of Manitoba.
- I can live near a very large bay that was named after an early explorer whose first name was Henry.
- Although not named after this gentleman (famous prime minister of England during World War II), the town I live near has the same name.
- Other wildlife come to visit or live in my same town, including hundreds of Beluga whales migrate through the river and over 150 kinds of birds that migrate and stay to nest in the summer.
- My town is located at Latitude: 58.76667 N Longitude: -94.16667 W.

Group 2: Find the Polar Bear Answer: *Spitsbergen, Norway*

- I live north of the United States, east of Greenland, north of Finland.
- The people who live here speak Norwegian, since this land is part of Norway.
- My home is part of an archipelago (an island chain) called Svalbard and I can be seen on the largest island.
- Some of the other wildlife that live here with me include the walrus; bearded, ringed and harp seals; beluga whales; bowhead whale; reindeer, and Arctic foxes.
- The largest settlement on my island is called Longyearbyen and is the world's most northerly town.
- I am located at latitude 74° North and latitude 81° North and between longitude 10° East and longitude 35° East.

Group 3: Find the Polar Bear Answer: *Tasiilaq, East Greenland*

- I live in a country that is considered part of North America but it is not the United States, Canada or Mexico.
- I live in the country which lies northeast of United States and northeast of Canada.
- Where I live, the people may speak Danish or English but neither are the official language.
- The native people here are called Inuit and they call me Nanuk.
- I live on the largest island (that is not called a continent) in the world.
- I can be seen, occasionally, in six settlements (Tasiilaq, Kulusuk, Kuummiut, Sermiligaaq, Tingtillaaq, and Isortoq) of the largest District in this country.
- Many different whales live in the waters where I fish and swim including fin whales, blue whales, humpbacks, narwhal, white whales, lesser rorquals, sperm whales and pilot whales.
- My latitude is 79° 39' 59"N and longitude is 37° 0'W.

Group 4: Find The Polar Bear Answer: *Barrow, Alaska*

- I live in North America and I am in the United States.
- The State that I live in is the largest state in the United States.
- The town which I live near is located on the Arctic Ocean between the Chukchi and Beaufort Sea.
- I live near the North Slope Borough.
- Some of the wildlife that live where I do include bowhead, gray, orca and beluga whales that migrate near here each summer.
- Some of the other names my town has had include Nuwuk and Utkiakvik.
- I live near the northern-most community in the United States.
- My latitude is 71.290N and longitude is -156.788W.

Bonus: Find the Polar Bear Answer: *Severnaya Zemlya Islands - Siberia (Class Completes Together)*

- I am living east of Finland, north of Germany and north central in Russia.
- I live on a series of islands located off the Taymyr Peninsula.
- The bodies of water that surround where I live are the Vilkitskogo Strait, the Kara Sea and the Laptev Sea.
- The island I live on translates to "North Land".
- The four main islands that I can live on are: October Revolution, Bolshevik, Komsomolets and Pioneer.
- My latitude is 77° 29' N and its longitude 82° 30' E.
- Where is the Polar Bear?

ARCTIC REGION

