Distance Learning/Videoconferencing at the

CENTER FOR PUPPETRY Arts

Exploring Antarctica

Distance Learning Study Guide

K – 3rd Grade

Visual Communication Equipment provided by: CIVCO
Dear Educator:

We are scheduled for an Exploring Antarctica videoconference with your group. You will need to do preparation prior to the program.

1. The materials list is the first thing in the study guide. Each student needs all the materials listed for the program.

2. All templates need to be traced onto black construction paper and cut out PRIOR to the program.

3. Please bring all pre-cut pieces and other materials to the program. It is helpful if each student has an individual bag with their own puppet parts. You can use small paper lunch baggies or Ziploc baggies.

4. Pass out all materials PRIOR to program start time. This includes tape and glue. Please have 5 strips of tape about the size of a band-aid precut and ready for each student. You can pre-tear pieces and stick them to the sides of the table, OR stick them to yard sticks (just hold out yard stick and students can take a piece of tape from it—teacher recommended!).

5. We will lead all students through the puppet building steps and learning activities.

6. The program does not allow time for students to cut out materials.

• The activities in the study guide are for you to use at your discretion as either pre or post activities.
• We will be doing different activities with the students during the program.
• Please let us know if you have any questions about how to prepare.
• If you have any technical questions, please contact us directly at (404) 881-5117.

Thank you!!!
Templates (penguin feet, head, body):
**Penguin Hand Puppet:** Each student will need the following materials:

**Materials needed to trace templates PRIOR to program:**
- 1 sharpened pencil
- Scissors
- 1 sheet of black construction paper

**Materials needed DURING the live program:**
- 1 penguin head (template)
- 1 penguin body (template)
- 1 set of penguin feet (template)
- 1 8 oz. paper or Styrofoam cup
- Glue
- Tape
WHAT IS A PUPPET?
During the program, your students will make their very own penguin hand puppet. Below is some basic puppetry information you may want to share with your students.

A “puppet” is an inanimate (non-living) object that is brought to life by an outside force (usually a human being working as a performer) in order to tell a story. We will build a simple penguin hand puppet during our Exploring Antarctica program.

• DISCUSSION: Ask the children, “What are puppets?” Have they seen them before? Are they real or pretend? What can be used as a puppet? Out of what materials can puppets be made, and why would you choose some materials over others for certain projects? Have you ever made your own puppets?

DID YOU KNOW....
Antarctica is a desert? That’s right! Find out more interesting facts about the continent and its animal life below:

1. Sea ice is frozen salt water and, unlike glaciers and ice sheets and icebergs, it doesn’t start on land.

2. Krill travel and live in big groups called swarms, which can have anywhere between 10,000 to 30,000 Krill in one square meter (a little over a yard)!

3. The Blue Whale is not just the largest whale, it’s the largest animal in the world! It can be 98 feet long and weigh as much as 200 TONS. That’s about 400,000 pounds!

4. The Humpback Whale is another HUGE krill-eating whale that lives off the coast of Antarctica for part of the year.

5. In Antarctica and on the islands around Antarctica there are 6 different species of seals.

6. The Weddell seals are known for how deep they can dive. Some of them can go down over 2000 feet. They can also stay under the water without taking a breath for 80 minutes!

7. The penguins living on the actual continent of Antarctica are Gentoo, Chinstrap, Adelie and Emperor Penguins.

8. There are about 400,000 Emperor penguins in Antarctica. Not only that, but Emperor penguins are the largest penguins in the world.

9. Penguins are birds. It’s easy to forget that when you look at the slick, smooth bodies of adult penguins.

10. The place where Emperor Penguins sit on their eggs, hatch their babies and let their babies grow is called a Rookery. For Emperor penguins, it is the male penguin who sits on the eggs to keep them warm.
Vocabulary

adaptations - changing to fit into an environment or situation

Antarctica - Earth’s southernmost continent containing the South Pole. It is the fifth largest continent and is surrounded by the Southern Ocean. 98% of Antarctica is covered by ice.

Antarctic Krill - small crustaceans that are eaten by many animals

continent - Any of the seven largest land masses on Earth (Africa, Antarctica, Asia, Australia, Europe North America, and South America)

desert - an arid region (little or no rainfall) with little or no vegetation

Emperor Penguin - the largest penguin; it lives on ice packs in Antarctica

Ernest Henry Shackleton - (1872-1922) a British explorer involved in many expeditions attempting to reach the South Pole.

expedition - a journey or excursion undertaken for a specific purpose

glacier - a slowly moving mass of ice

hand puppet - a puppet manipulated or moved by the hand

puppet - an inanimate (non-living) object that is brought to life by an outside force (usually a human being working as a performer) in order to tell a story.

Weddell Seal - a large marine mammal (a seal) that live in Antarctica. It is related to the walrus and sea lion. It is primarily nocturnal.
Selected Bibliography


Internet Resources

http://www.puppet.org
Visit the Center for Puppetry Arts’ webpage.

http://www.activitytv.com/puppets-for-kids
This is one of the best websites for puppet projects for children. View videos, download patterns, and more!

http://ngm.nationalgeographic.com/ngm/antarctica/
This is a SUPER site by National Geographic. You can hover over icons on the continent to find pictures and facts about animals, explorers, videos (Sights & Sounds Under the Ice), and more.

http://continents.pppst.com/antarctica.html
This is a site for teachers to access. It has some ads, but it has some really good activities you may want to use as well.

http://www.discoveringantarctica.org.uk/teachers.html
Though developed for UK teachers, this site has resources that any teacher can use.

This is a simple “click” interactive on PBS for students to learn facts about penguins in Antarctica.

http://www.enchantedlearning.com/school/Antarctica/
Enchanted Learning Zoom School for Antarctica

http://kids.nationalgeographic.com/kids/animals/creaturefeature/emperor-penguin/
National Geographic Kids Creature Feature Emperor Penguin

PBS Kids Balloon Globe

Yahoo Kids World Fact Book

http://library.thinkquest.org/CR0215022/animals.htm
Think Quest website created by students on Antarctica

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Fitness
Scientists living at the Antarctic research stations need to stay active—even in the freezing temperatures! Ask students to imagine living at a research station for a long period of time. How would they stay active? Have younger students do exercises such as hopping, crawling, slow-motion running in place -- these activities improve muscular strength and cardiovascular endurance.

Older students can create an exercise regime to share with the class.

CURRICULUM CONNECTIONS: Physical Education, Science

Math Fun
There are many ways to explore math using the program as an inspiration. With younger students, talk about the animals and organize them in terms of size, guessing which animal might be tallest, which might be shortest, and which might be similar in size (encourage students to use the vocabulary greater than, less than, equal to). What other math games can you create using the program and/or its characters as a jumping-off point?

Older students can create graphs with data found at www.coolantarctica.com. Using the climate graph found at the following link, http://www.coolantarctica.com/Antarctica%20fact%20file/Antarctica%20environment/climate_graph/casey_mawson.htm, students can plot temperature changes from month to month.

CURRICULUM CONNECTION: Mathematics

Places and People
What would it be like to be an explorer of Antarctica? Ask younger students to pack a bag for Antarctica. Bring in magazines and allow students to cut out pictures to put in their backpacks.

Older students can create a timeline of Enrest Shackelford's Endurance voyage and rescue. The following link at www.coolantarctica.com provides information and dates of the events: http://www.coolantarctica.com/Antarctica%20fact%20file/History/Ernest_Shackleton_map_time_line.htm.

CURRICULUM CONNECTION: Social Studies and Science