

BURR... COLD!



Post Lesson Plan 2

Age: K-2

Setting: Classroom

Standards: Environment and Ecology: 4.2.4A(3), 4.3.4A(1), 4.3.4C(1), 4.6.4A(2-4,6,9),
4.7.4B(1,2)
Science and Technology: 3.2.4C(1,3,4)

Objectives: Students will be able to:

- Identify animals significant to the Arctic region.
- Identify what adaptations arctic animals have that make them suitable to live in the cold.

Overview: The lesson will identify animals found in the Arctic. Students will gather firsthand knowledge through experimentation about animal adaptations. Part of this lesson plan taken from:
Resource: Alaska Project Wild, Alaska Division of Fish and Game, Division of Wildlife Conservation, 333 Raspberry Rd, Anchorage, AK 99518
907 -267-2168
www.atozteacherstuff.com -lesson on polar bears by Mandy Wallace

Vocabulary: blubber adaptation camouflage

Materials: latex gloves (2) rubber bands Crisco
2 thermometers warm water 2 Ziploc plastic bags
measuring cup 2 containers ice water chalkboard
pair of mittens goggles pair of gloves chalk
refrigerator (somewhere cold)

Procedure:

1. Have students name animals they might find in the Arctic region clarify any misconceptions- NO penguins).
2. Explain that they will be completing some experiments today.
3. Complete the first experiment below - *Mitten or Glove*.

Science Adaptation Experiment #1 :

- 1) Brainstorm with students on which is warmer a glove or a mitten. Why?
- 2) Tightly close off the fingers of one latex glove with a rubber band to create a mitten.
- 3) Pour an equal amount of warm water into each - the "mitten" and the glove.
- 4) Measure and record the temperature. Make sure that each glove has the same temperature.
- 5) Close tops of both, the glove and the mitten, with rubber bands. Make sure that they will not leak.
- 6) Place in a cold place (cooler with ice or refrigerator) for 30 minutes. The glove and mitten should not be touching. Pour water into separate containers.
- 7) Measure and record the temperature of both.

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