Comparison

Subject: Observing similarities and differences, identifying patterns

Duration: 1 hour

Setting: Inside; good activity on a day with bad weather

Materials: Journal, pencil, 2 "similar" items per student (see below), magni-

fying glass, ruler

National Standards - LS1.A, LS1.B, LS3.A, LS3.B, LS4.A

Guiding Themes: Identify patterns, structures, and functions. Observe

similarities and identify unique details of their items.

Materials

You will need to provide each student with 2 items. The items should be two of something similar, i.e., 2 feathers, 2 shells, 2 cones, 2 mosses, 2 lichens, 2 flowers, etc. The items should vary student to student. Each student will need a magnifying glass and ruler. Note: In Seward, the ranger can help procure most of the objects needed.

Activity Instructions

1. The goal of this activity is to have students compare and contrast their items. Students can make a "T" chart, or a Venn diagram. They can also figure out their own way of organizing their comparisons.

If students have not made a Venn diagram before, walk them through the process.

Make 3 lists: Object 1; Both Objects; Object 2

When students are done writing their lists, draw two circles around the lists, one for each object. Where the circle overlaps, students should write down what both objects have in common.

2. Students should draw both of their object, taking up a whole page for each object. This will allow them to draw in detail.

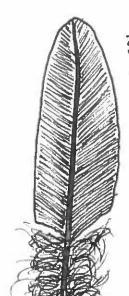
Discussion Questions

Is there something very important about of the things they have in common? What does it do to help the object survive?

Look at the differences... what might have caused them?

Pick one "structure" on your object. Focus on how it differs from the other object (examples: edge of the leaf, color of the feather, size or shape of a tooth). Turn and talk to a partner and take turns talking about your items' differences, and how they might make your two items function differently.

Comparison



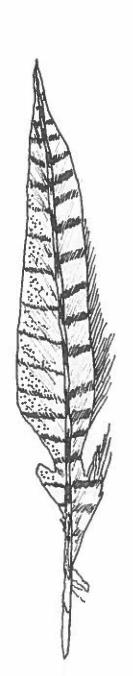
Feather 1

Shaft brown until bottom-white
Fluffy feathers at bottom
Feather transitions gray >
brown > black
Short - 19.05cm

Feather 2

Shaft brown and white pattern
Feathers Uniform from bottom to top
Feather golden with black stripes
Long and skinny - 34.29 cm
Some barbs damaged

Feather 1 Feather 2 Both Shaft brown until bottom-Shaft brown and White pattern Fluffy barbs at bottom curves to ther transitions arev left Barbs Uniform from bottom Feather transitions gray to top > brown + b lack Quill is Short Golden with black White 19.05cm stripes ong and skinny Some barbs damaged



Example Journal Entry: COMPARISON Totice the shart white and the bottom is shiny transporent of the bottom nearly transporent of the bottom of I wonder why the words oren't holding I notice the top GO barbs are all neat and orderly tucked in close together QI wonder what type of bird this came from The barbs at the fluffy part reminds me of cirrus clouds The white non-transparent part of the quill reminds me of cotton

