

LCM Lesson Plan: Birds of Kobuk

Developed by F. Ross, Kobuk, AK

Science Concept: A variety of birds call Kobuk "home"

Grade level: 3rd/4th Kobuk School, NW Arctic Borough S.D.

AK State Standards: Science A15, B1, Math A5, Cultural E2

Process Skills: Observation, Measurement, Classification

<u>Gear Up</u> <ol style="list-style-type: none">1. Walk the loop of Kobuk - lakeshore, thick willows, scattered cottonwood/birch/spruce, sandy river beach, dirt, mud, buildings - look for birds2. Make "K, W, L" chart for Kobuk Bird Species	<u>Skills</u> Communication Observation	<u>Materials</u> Marker(s) Chart paper Chart stand/board Masking Tape
<u>Explore</u> <ol style="list-style-type: none">1. In classroom, have kids in pairs complete "bird characteristics" data sheets at twelve separate bird stations.2. Have kids record their bird ID guesses.	Observation Classification Measurement Communication Prediction	One fact sheet/photo each of (fact sheets to include info on food, habitat, seasonal status, special adaptations of feet/bills): Common Raven Black-capped Chickadee Yellow Warbler Gray Jay Pine Grosbeak American Robin Tree Swallow Common Redpoll Downy Woodpecker White-crowned Sparrow Dark-eyed Junco Willow Ptarmigan
<u>Generalize</u> <ol style="list-style-type: none">1. Discuss data sheets in whole group while examining each bird.2. Come to consensus: bird identification.3. Label the birds	Communication Classification	Marker(s) Chart paper Chart stand/board Masking Tape
<u>Explore</u> <ol style="list-style-type: none">1. Have partners combine cards and "quiz" each other on birds until both partners are confident of their identification skills.2. Have partners play "Old Maid."3. Divide class into two relay teams. Have kids race to their respective tubs to grab and return with "assigned" bird cards.	Observation Classification Communication	Laminated bird cards - two sets per kid (2) flat tubs

<p><u>Generalize</u></p> <ol style="list-style-type: none"> 1. Have students suggest a "Quick 3" method for easily determining each of the twelve species. 2. Record "Quick 3" for each species. 	<p>Communication Classification</p>	<p>Chalk/Chalkboard Or Marker/Whiteboard Or Marker/Paper</p>
<p><u>Apply/Assess</u></p> <ol style="list-style-type: none"> 1. Play "Bird Bingo." 2. Say, "Glue the red marker on the Yellow Warbler. Glue the green marker on the Common Raven. Etc. 3. When you've gone through the twelve species (with twelve different colors), collect the cards. 	<p>Communication Observation Classification</p>	<p><u>Vocabulary</u></p> <p>Common Raven Black-capped Chickadee Yellow Warbler Gray Jay Pine Grosbeak American Robin Tree Swallow Common Redpoll Downy Woodpecker White-crowned Sparrow Dark-eyed Junco Willow Ptarmigan</p>
<p><u>Extensions</u></p> <ol style="list-style-type: none"> 1. Make daily observations of birds visiting a feeder. Log types of birds seen, compile data, and analyze/graph. 2. Invite an ornithologist to speak to the class. 3. Invite an elder to speak about local birds. 4. "Design" a bird that would be able to survive in a local habitat. Give it a name and write a "fact sheet" for it including description of habitat, diet, and adaptations. 5. Color black line drawings of local birds (e.g. from Audubon Birds of America coloring book) using appropriate shades to show the distinct field marks of the bird. 		<p><u>Resources</u></p> <p>Various Sibley Field Guides</p> <p>Useful Websites:</p> <p>Alaska Bird Observatory</p> <p>Cornell Lab of Ornithology</p> <p>Audubon</p>

Scoring Guide for Apply/Assess Bingo Activity

Objective: The students will be able to independently identify by sight 80% of common local birds (in Kobuk)

Score	1	2	3	4
Demonstrated Ability	Below Proficient	Emerging	Proficient	Advanced
Level of independence	Requires verbal clues on all birds in order to identify	Requires verbal clues as to the identity of the bird (e.g. the Common Raven is the biggest bird on your card) on half or more of those identified	Identifies 10 or more birds independently	Identifies all 12 birds independently AND Assists other students in identifying the birds on their cards
Birds Identified (out of 12)	0-7	8-9	10-12	12