Birds: Winter Survival Synopsis K, 1st—6th, upper



Summary:

Explore basic bird biology, identification, and binocular use (size appropriate binoculars for every group), and learn about seasonal bird behaviors through observation and outdoor activities.

Winter survival is a guided exploration of amazing avian adaptations. Discover some of birds' strategies for surviving the coldest months of the year.

MN Academic Standards

supported during HNC program. More standards can be supported with pre- and post-lesson activities.

Science

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Language Arts

0.8.1.1, 0.8.3.3, 1.8.1.1, 1.8.3.3, 2.8.1.1, 2.8.3.3, 3.8.1.1, 3.8.3.3, 4.8.1.1, 4.8.3.3, 5.8.1.1, 5.8.3.3

Social Studies V.D.5

Authenticity

Students will observe birds during winter in Hartley Park. Bird species seen and/or heard are recorded and contribute to ongoing data collection at HNC.

Goals & Objectives

This program will:

- Highlight the major adaptations that set birds apart from all other creatures.
- Expose students to live birds and their behaviors in their natural habitat.
- Discuss various strategies birds use to survive the cold winter months.

Students will be able to:

- Use binoculars to observe wild birds.
- Explain birds' unique adaptations.
- Identify some common bird species by sight or sound.
- Summarize the survival strategies of winter bird residents.

Activities

In the classroom:

- Students will brainstorm the 5 Ws of winter survival (what, who, where, when, why).
- Stories or interesting examples from bird species will be used to illustrate bird behavior in winter.
- Bird banding will be discussed in relation to survival. For example: a band on a bird we trap at HNC can be looked up to find a history of that bird.
- Hartley educators may trap a wild bird to give students an up-close view of bird adaptations.

In the field:

- •Students will use binoculars and/or field guides to observe and identify species seen in Hartley Park. Field marks and calls will be pointed out.
- •Students will participate in the Owl Pounce or Huddle, Mob, Dodge activities to highlight certain birds' adaptations to cold conditions.
- Other bird signs and information can be discussed during the hike. Why don't birds freeze? How do their bodies change to prepare for life in the cold?

Bad Weather Alternative

- Live bird handling, banding, and release
- Binocular and field guide use at windows
- Up-close look at preserved bird species
- Conduct an insulation experiment to test the value of protection in the cold