

## Birds

## Lesson 9: Bird Walk

#### Duration: 60+ minutes Location: Outdoor

### Overview

In this lesson students will conduct a birding in their schoolyard/community looking for and recording the local bird species into eBird that they identify through the Merlin Bird ID app. Students need to completed the in-classroom lessons, specifically,' How to Identify a Species' and 'What is Citizen Science' prior to this lesson.

#### Learning objectives

By the end of the session, students will be able to:

- Identify one local bird species;
- Reflect on the scientific process of collecting and analysing data;
- Understand one or more environmental conditions that threaten bird survival;
- Understand one or more actions they can take to help local bird populations; and
- Create one 'I Wonder' question.

### **Curriculum links**

Grade: 3

Science, Animal Life Cycles

• Identify examples of environmental conditions that may threaten animal survival and identify examples of extinct animals. Recognize that habitat preservation can help maintain animal populations and identify ways that student actions can assist habitat preservation.

Social Studies, Global Citizenship

- Understand, in what way can individuals and groups contribute to positive change in the world.
- Understand, what are some environmental concerns that Canada and communities around the world share.

## Equipment required

- □ Tablets/iPads
- Observation sheet or nature journal
- □ Writing utensil



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- □ Clipboard (optional)
- Binoculars
- □ Appropriate outdoor clothing
- □ Bird flash cards (choose 10+ from the selection)
- □ Clothespins
- □ Bird ID guide or pamphlet

## **Additional information**

Students will need to know the 6 tips of how to identifying birds, how to use a guide book and have a basic knowledge of how to use Merlin Bird ID app and binoculars. A basic understanding of climate change and hypotheses would be an asset.

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## Lesson plan

Time	Activity	Equipment Needed
10 minutes	Identify the area that you will be taking students birding. For instance, this can be a stationary observation in the schoolyard or a traveling bird walk through the community. To ensure that students have something to find, take the provided laminated bird images and hang them in your study area. As an option, post a sign requesting all students do not touch or move these images. Gather the students together and create a guess/hypothesis based on their personal experience in their schoolyard/community. How many and what type of birds do they believe they will find while birding? Write them down and post them in the classroom to revisit after.	<ul> <li>Paper or white board</li> <li>Writing utensil</li> <li>Bird flash cards</li> <li>Clothespins</li> </ul>
	Frame the day as a bird field study where they will be attempting to identify as many birds as possible.	
10 minutes	<ul> <li>Create smaller groups of 2-5 students. Within each group, designate and describe the following roles.</li> <li>Observer: will be using the binoculars and their naked eye to look for birds in all different areas (trees, the sky, the grounds, bushes, etc.)</li> <li>Recorder: will be using the observation sheet or nature journal, clipboard (optional), writing utensil and be drawing or writing down the birds their group observers and <u>'I Wonder' questions that come up</u>.</li> <li>Identifier: will be using the ID guide and/or tablet/iPad with Merlin Bird ID to help the group identify any birds observed.</li> </ul>	<ul> <li>Tablets</li> <li>Observation sheet or nature journal</li> <li>Writing utensil</li> <li>Clipboard (optional)</li> <li>Binoculars</li> </ul>



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	Depending on your group size and needs, there can be two or more students in each role. As well, students can periodically (every 10 minutes for instance) switch roles so everyone has an opportunity to experience each role and equipment. Also, you can repeat this activity on different days, switching the roles each time you go out.	<ul> <li>Appropriate outdoor clothing</li> <li>Bird ID guide or pamphlet</li> </ul>
	<ul> <li>Hand out the following equipment:</li> <li>Binoculars</li> <li>Writing utensil</li> <li>Observation sheet or nature journal</li> <li>Bird ID guide or pamphlet</li> <li>Tablet/iPad</li> </ul>	
	<ul> <li>Before leaving, have the group review birding behaviour best practices. For example;</li> <li>move slowly,</li> <li>move as a group,</li> <li>do not make loud sounds, and</li> <li>create a quiet 'stop, look and listen' hand signal.</li> </ul>	
15+ minutes	Starting birding. If you have selected a travelling field study, then ensure that you have one adult in the front and back. Ideally you will have one adult per small group to assist with observations, identifications, and recordings.	<ul> <li>Tablets</li> <li>Observation sheet or nature journal</li> <li>Writing utensil</li> <li>Clipboard</li> </ul>
	If you have selected a stationary field study, then ensure that groups are sitting together but spaced far enough apart in the study area to reduce chatter. Travelling between stationary groups and providing prompting questions and tips is important to keep group focus. Examples are, ' <i>have you looked up at the sky for soaring birds?</i> '	<ul><li>(optional)</li><li>Binoculars</li><li>Appropriate outdoor clothing</li></ul>

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	, <i>while we are waiting for a bird, is there any 'I Wonder' questions you have thought of</i> , etc. As students sit or walk around, they will encounter the laminated bird cards. Discuss beforehand that students are to observe (but not touch) the images, observe them from at 5 m away (you can have a discussion as to how far this is), use their guidebooks and/or tablets/iPads to identify the species, and record the species in their observation sheets or nature journals. This engages students when birds are not being sighted and allows them to practice their birding skills.	<ul> <li>Bird ID guide or pamphlet</li> <li>Bird flash cards</li> <li>Clothespins</li> </ul>
	and fledging's for example). This will be especially important if you are birding in the spring and summer. Some of these younger birds will look different than their adult life stages, Merlin Bird ID will have images of most birds during this stages, they are labelled as 'immature' or 'juvenile'.	
5 minutes	During the field study, have students individually, in their birding group, or as a class, identify threats to bird survival in their community. Write ideas down in the observation sheets or nature journals. Revisit this brainstorm list after the field study. This mini-activity can be done as a birding break activity or facilitated as an on-going 'scavenger hunt' during the field study.	<ul> <li>Observation sheet or Nature journal</li> <li>Writing utensil</li> </ul>
10 minutes	Review real life bird sightings together as a big group (not the laminated images). Curate a class list of birds seen (make sure they have been seen by at least two individuals and each agrees with the identification). Log onto eBird on a tablet (outside, Wi-Fi permitting) or in the classroom (on the smartboard) and submit your birding checklist together as a group.	<ul><li>Tablet</li><li>Smartboard</li><li>Computer</li></ul>

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#### Lesson 9: Bird Walk Revisit the hypothesis the class made about how many and what type of birds they 15 minutes Observation • would see on the field study. Compare this to the bird list that you curated and either sheet or nature prove or disprove their hypothesis. Some suggested follow-up questions are below. journal • We didn't see as many birds as we hypothesized, why do you think that is? Writing utensil • How could we invite more birds to our schoolyard/community? • We saw more birds than we hypothesized, why do you think that is? • Do you think these birds live here all year long, why or why not? Revisit the list of threats and obstacles the students wrote down that birds have in your field study area (outdoor cats, no food, no shelter, not enough trees/bushes, cars, the *heat/cold, etc.*) Create a group list on the board. Brainstorm ideas on how the students and others can help change those threats/obstacles and help birds. Some suggested follow-up questions are below. • Do you think these threats/obstacles are only in our area, or are they common around the world? (many of these problems, like habitat loss and climate changes are happening all around the world and impacting all bird species.) How can we as students help birds overcomes these obstacles? How can we as students remove some of the threats? (Keep doing citizen science, Teach other people what we have learned. Make a birding or eco-club. Raise money for or donate to conservation organizations, *like eBird. Reduces our climate impacts. Plant more flowers/bushes/trees in our* yard and schoolyard. Protect or reclaim natural spaces. Build or buy bird feeders and bird baths. Keep our cats indoors only.)

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Share some of the 'I Wonder' questions and observations that the group had (if applicable).