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Module 11: Bird Migration

Urban EcoLab

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## Scientific Research Questions - Extended Learning Scientific Research Topics

Center for Urban Resilience

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# Module 11

## Extended Learning

### Scientific Research Topics

For each topic below, research and explore the topic, prepare a visual presentation on the topic, and present your findings to an appropriate audience for the topic, such as peers, school government, local government, local birding organization, local community group, state or federal governing body, etc.

- What is the impact of habitat loss and fragmentation on migratory birds? Explore the local area to determine bird-friendly habitats that are available to bird migrants.
- Research the impact of climate change on migratory birds.
- Research the changes in bird migration numbers over time.
- Explore the current technology that is being used to collect data on bird migrations.
- Research the local and/or global threats to migratory birds – both natural and anthropogenic.
- Explore the impact of human-provided food subsidies on bird migration.
- Research the various western hemisphere migration flyways, with focus on bird species that travel these flyways and threats they face during their journey.
- Research the various eastern hemisphere migration flyways, with focus on bird species that travel these flyways and threats they face during their journey.
- Research population declines of birds in the local area; arrange a meeting with local officials to try to work on solutions to the decline; solicit the help of local birding groups.
- Design a migratory bird experiment or investigation for a bird in the local area; present findings at a science fair or research symposium.
- Visit a bird lab at a local research institute or university that studies migratory behavior in birds; write a report on the visit.
- Start a school, neighborhood, or community birding club, with a focus on learning about the local bird species and the resources needed for their survival (food, water, shelter, space).