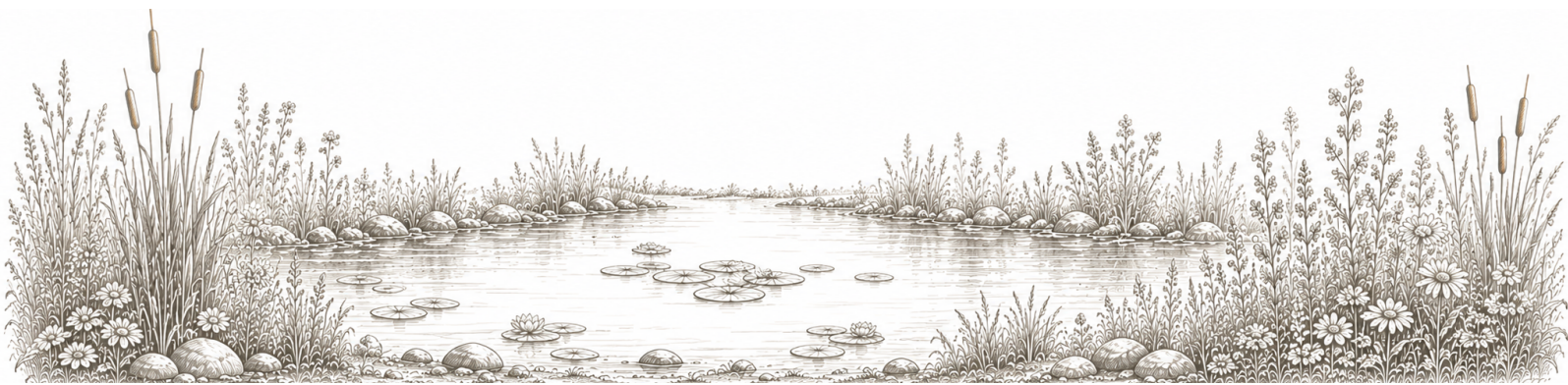




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Academy of Natural Philosophy

Audubon's Birds



WEEK 2:

Field Guides & Feeders

Monday on Campus:

Materials Needed: various bird field guides, photo of 2-3 common birds (to have students identify)

- Have students look through field guides and discuss what they notice. Discuss: how is it organized?
- Teach field mark vocabulary — crown, mantle, wingbar, supercilium, bill shape.
- Practice using the guide to identify 2-3 common Indiana birds together.

Wednesday Forest School:

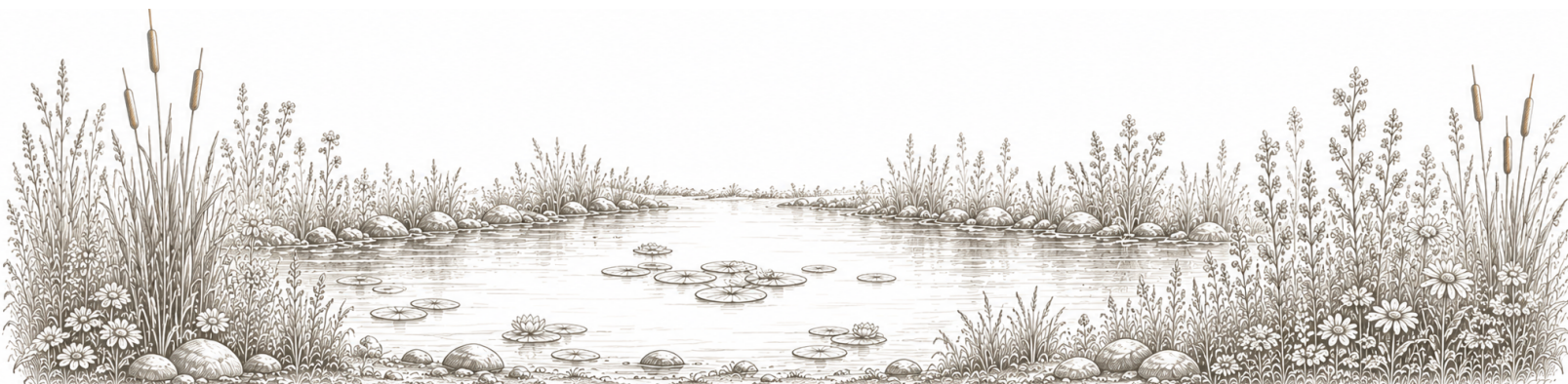
Have a bird field guide available. Students should find/report any bird they see to record in a class book.

Thursday at Home:

Each family sets up a bird feeder this week (or identifies a window/outdoor spot to observe regularly). Sit near it for 10 minutes and observe. (*Birds are most active in the early morning or late afternoon.*)

Journal Prompt:

- Left: Draw the bird feeder and one bird you saw.
- Right: Weather. Time. Bird color and relative size. Type of bird feeder. What were the birds doing?

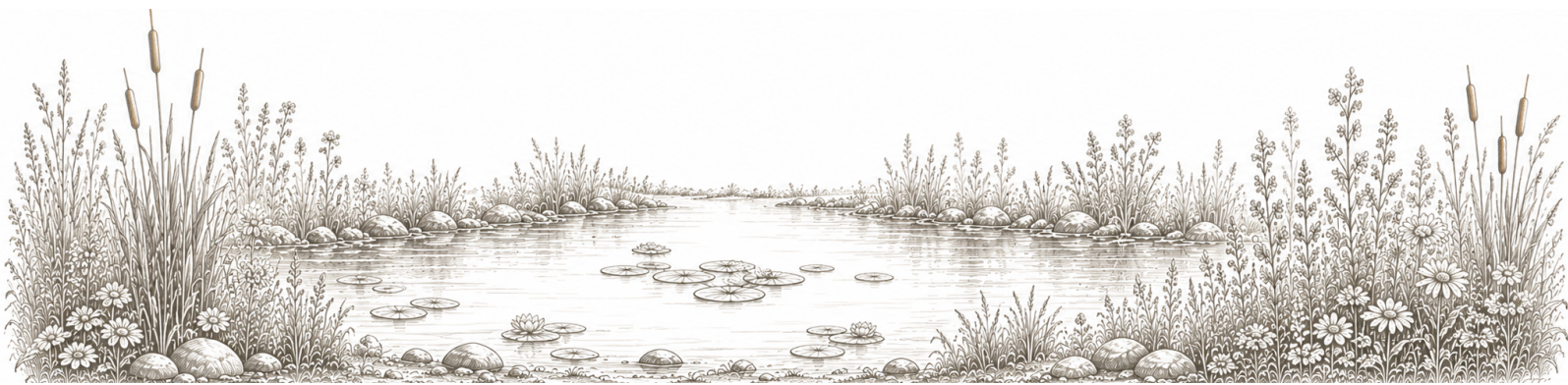




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Astronomy & Navigation



WEEK 1:

Navigation & The Sun

Monday on Campus:

Materials Needed: globe, flashlights, white paper, various objects

- Discuss why people need navigation and what they used to navigate.
- Using a globe and flashlight, explain the rotation of the Earth and the sun's "movement."
- Conduct shadow experiments by placing an object on a white piece of paper, turning off the lights and moving the flashlight in an arc over the object. What happens to the shadows?
- Connect it back to the sun's "movement" and how we can tell the time of day with shadows.

Wednesday Forest School:

Put a stick in the ground, mark the shadow tip every 15-20 minutes. (The shortest shadow marks solar noon and points true north/south.) This is how explorers found direction without a compass.

Thursday at Home:

Observe the sunrise or sunset as a family. For older students, discuss how the sun isn't technically moving, the earth is just turning away or toward it.

Journal Prompt:

- Left: Draw the sunrise/sunset. Pay attention to the colors you see.
- Right: Date. Time. How long did the sunrise/sunset last? What colors did you see? How did the trees, clouds, and other objects look different?

