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Scientific Method

Ask questions, test the answers, do it again.

That's the process scientists use when they tackle a problem

Observations lead to a question. Possible answers are called **hypotheses**. You can test these in many ways such as with an experiment, a mathematical analysis, creating a model, and more observation.



Next the scientist **analyze** their results to come to a **conclusion** that supports or rejects their hypothesis.

Sometimes this process leads to new observations which lead to new questions.

Experiments need to be repeatable by other teams to see if they get the same results. A hypothesis that repeatedly is validated (found to be true in testing) can become a scientific theory.

Scientists are always observing, questioning, and repeating experiments to keep learning!

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Nature Backpack

Scientific Concept: Wildlife Zoology

Recommended Ages: 5 to 12

Scientific Practice: Observation, Data recording

WHAT TO KNOW ABOUT THIS KIT

This kit is for you to explore green spaces and their inhabitants, around the region or even from your own neighborhood. Each backpack comes with the essentials for a ready-to-go nature experience. The backpacks are ideal for the budding birder, nature enthusiast, and citizen scientist. Pack a few layers, some snacks and sunscreen, and you're ready to go bird watching.

Please note: this kit must be returned to a staff member at the Kenai Community Library Location.



Kit Contents & Replacement Costs

Item Type	Description	Cost
Object	Backpack	\$14
Object	Binoculars with cleaning cloth	\$25
Object	Field notebook and pencil	\$5
Object	2 bug magnifiers	\$1 each
Object	Waterproof bag, Flashlight, measuring tape, magnifying glass, and compass	\$2 each
Object	Kids trekking poles	\$35
Book	Birds of Alaska Field Guide	\$14
Book	Alaska's Kenai Peninsula Wildlife Viewing Trail Guide and map	\$9
Total Kit Replacement Cost:		\$114



Please verify all parts are present before returning.

