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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 scientists **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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Astronomy Binoculars

Scientific Concept: Astronomy

Recommended Ages: 6 to 12

Scientific Practice: Observation, Inquiry

What to Know About This Kit

This kit contains two pairs of astronomy binoculars which have flared lenses to allow in more light and make it easier to see features of the night sky. Astronomy binoculars are not as finicky to adjust as a telescope and can be a great way to help younger students do their first astronomical observations. We also include a red light flashlight so you can look at the star charts without ruining your night vision. The included star chart is specifically for Anchorage latitude!

Please note: This kit must be returned to a staff member at an Anchorage Public Library location.



Kit Contents & Replacement Costs		
Item Type	Description	Cost
Object	Celestron Binoculars (\$35/each)	\$70
Leaflet	Celestron Binoculars instructions	n/a
Object	Red Flashlight	\$9
Object	The Night Sky, 50° -60° Star Finder	\$12
Book	<i>Space Encyclopedia</i>	\$25
Book	<i>Astronomy Lab for Kids</i>	\$25
Packaging & Processing Fee:		\$25
Total Kit Replacement Cost:		\$166



Please do not attempt to clean the binocular lenses!
Cleaning the lenses can inadvertently scratch them.
Notify library staff if they need cleaned.

Please verify all parts are present before returning.