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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 Telescope

Scientific Concept: Astronomy

Recommended Ages: 6 to 12

Scientific Practice: Observation, Inquiry

## What to Know About This Kit

This kit has a telescope in a convenient backpack so it is easy to take anywhere you want to set it up for night sky viewing. 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 70mm Travel Scope with backpack	\$90
Leaflet	Celestron Travel Scope Instruction Manual	n/a
Object	Red Flashlight	\$9
Object	The Night Sky, 50° -60° Star Finder	\$12
Book	<i>50 Things to See With a Telescope Kids</i>	\$17
Book	<i>Astronomy Lab Kids</i>	\$15
Packaging & Processing Fee:		\$25
<b>Total Kit Replacement Cost:</b>		<b>\$168</b>



- Telescope includes**
- 20 mm eyepiece
  - 10 mm eyepiece
  - 45 degree erect image diagonal
  - 5x24 finderscope
  - Adjustable height tripod



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

**Please verify all parts are present before returning.**