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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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# Astronomy Telescope

**Scientific Concept:** Astronomy

**Recommended Ages:** 6 to 12

**Scientific Practice:** Observation

## 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 the Anchorage/Kenai latitude!

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



# Kit Contents & Replacement Costs

## Telescope includes

20 mm eyepiece

10 mm eyepiece

45 degree erect image diagonal

5 x 24 finder scope

Adjustable height tripod

| Item Type                              | Description  | Cost  |
|--|--|-------|
| Object                                 | Gskyer 70mm Telescope with case  | \$120 |
| Leaflet                                | Gskyer Telescope Instruction Manual                                    | n/a   |
| Object                                 | Red Light Flashlight   | \$5   |
| Object                                 | LED Flashlight   | \$15  |
| Object                                 | The Night Sky, 50 -60 Star Finder                                      | \$13  |
| Book                                   | <i>50 Things to See with a Telescope - Kids</i>                        | \$17  |
| Book                                   | <i>Constellations for Kids: An Easy Guide to Discovering the Stars</i> | \$17  |
| Book                                   | <i>Star Finder! A step-by-step Guide to the Night Sky</i>              | \$14  |
| Object                                 | Black Backpack   | \$40  |
| <b>Packaging &amp; Processing Fee:</b> |  | \$25  |
| <b>Total Kit Replacement Cost:</b>     |  | \$266 |



**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.**