



**DISCOVERY KIT**  
HANDS-ON KNOWLEDGE AT YOUR FINGER TIPS

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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!**



# NASA Backpack

<b>Scientific Concept:</b>	Astronomy, coding
<b>Recommended Ages:</b>	6-12
<b>Scientific Practice:</b>	Observation, Inquiry, Computational Thinking

## WHAT TO KNOW ABOUT THIS KIT

NASA scientists and engineers use telescopes and other tools to help them explore moons, planets, and stars. With the items in this backpack, you will learn how a simple telescope works, program a fun robot, and read about space.

**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

6 mm eyepiece

2x barlow lens

Red dot finder scope

Item Type	Description	Cost
Object	JanSport night sky backpack	\$37
Object	FunScope 76mm telescope	\$60
Objects	Plastic pouch: 6mm eyepiece in case, 20mm eyepiece in case, 2x Barlow lens, Red dot finder scope	\$20
Object	Red light flashlight	\$5
Object	Night sky planisphere	\$10
Object	Code & Go Robot Mouse with 30 directional coding cards	\$34
Book	<i>Find the Constellations</i>	\$10
Book	<i>Moustronaut Goes to Mars</i>	\$20
Book	<i>8 Little Planets</i>	\$11
Book	<i>A Place for Pluto</i>	\$8
Sheets	Plastic pouch: Orion moon map 260, 5 laminated how-to sheets	\$5
Papers	Telescope and Robot manuals	N/A
<b>Packaging &amp; Processing Fee:</b>		\$25
<b>Total Kit Replacement Cost:</b>		\$245



**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.**



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