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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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# Solar System

Scientific Concept: Astronomy

Recommended Ages: 6 to 12

Scientific Practice: Observation, Inquiry

## What to know about this kit:

This kit contains 40 cards with engaging, standards-based activities covering 5 different curriculum areas: math, language, science, social studies, and arts & crafts. Plus, you get tons of ready-to-use materials for exploring concepts in depth, including a model of Earth, the sun and moon, a constellation viewer, photo cards...plus write & wipe experiment posters, vocabulary cards, writing prompts and more!

*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	Solar System Activity Kit	\$80
Object	Solar System Viewer With 4 Disks	\$22
Book	<i>Solar System for Kids</i>	\$7
Book	<i>Our Solar System</i>	\$8
Packaging & Processing Fee:		\$25
<b>Total Kit Replacement Cost:</b>		<b>\$142</b>



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