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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!**



This kit generously sponsored by:



This material is based upon work supported by the National Science Foundation under Grant Number DRL-1657593. Any opinions, findings, and conclusions or recommendations expressed in this material are those of the authors and do not necessarily reflect the views of the National Science Foundation.

# GPS & Maps

Scientific Concept: Geography

Recommended Ages: 8 to 12

Scientific Practice: Maps, Latitude/Longitude

## What to Know About This Kit

Geocaching is an activity where you go looking for hidden items and treasures by following the coordinates posted online. A “cache” is a secret stash of something, so a “geocache” is a stash you can only find with GEOgraphy. You don’t keep what you find in the geocache, and you might even try hiding your own!

Learn more at [www.geocaching.com](http://www.geocaching.com)

*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	Garmin eTrex 10	\$100
Leaflet	Garmin eTrex 10 Quick Start Manual	n/a
Book	<i>Cool Maps &amp; Geocaching</i>	\$29
Book	<i>21st Century Inventions: GPS Technology</i>	\$8
Packaging & Processing Fee:		\$25
<b>Total Kit Replacement Cost:</b>		<b>\$162</b>



Please verify all parts are present before returning.  
 Please return included power cord and adapter.