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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.

# Probability

Scientific Concept: Math

Recommended Ages: 6 to 12

Scientific Practice: Statistics, Probability

## What to Know About This Kit

Included in this kit are three classic objects used to teach statistics and probability: dice, playing cards, and a spinner. We have included three experiments, one for each object, and two books that we hope will inspire you to ask more questions and discover ways to find the answers!

*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	2 decks of cards	\$3
Object	10 dice	\$1
Object	2 clear plastic spinners	\$4
Book	<i>What Are The Chances?</i>	\$9
Book	<i>That's A Possibility</i>	\$18
Packaging & Processing Fee:		\$25
<b>Total Kit Replacement Cost:</b>		<b>\$60</b>



Please verify all parts are present before returning.