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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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Snow Science

Scientific Concept: States of Matter

Recommended Ages: 5 to 12

Scientific Practice: Observation, Inquiry

What to Know About This Kit

Snow is beneficial for this kit, but not required. We provide a “cold well” for observing snowflakes and a magnifying glass. We also include ice cube trays, beakers, and several instructions for experiments about freezing and melting water to help you learn about the states of matter.

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	Snow Well/Cold Well	\$10
Object	Paint brush	\$1
Object	Magnifying Glass	\$13
Object	Kitchen Timer	\$12
Object	Food Thermometer	\$12
Object	Beakers (four)	\$5
Object	Ice Cube Trays (three)	\$17
Book	<i>Matter and How It Changes</i>	\$20
Book	<i>The Story of Snow</i>	\$8
Packaging & Processing Fee:		\$25
Total Kit Replacement Cost:		\$123



Please wash ice cube trays and beakers.
Please verify all parts are present before returning.