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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:



# Volcanoes

Scientific Concept: Volcanology

Recommended Ages: 6 to 12

Scientific Practice: Observation, Inquiry

## What to Know About This Kit

Create your very own erupting volcano with this unique no assembly required model. Includes an easy-to-prepare lava recipe, a 13" clear plastic tray and a removable tube that allows for quick clean up. Detailed cross-section shows the inside of the volcano. Also included is The Floor Is Lava game.

**Please note:** Ingredients for eruption are not included with the kit. Patron will need to supply baking soda, vinegar, red food coloring (optional), and dish soap.

*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	Erupting Volcano Model	\$46
Object	The Floor is Lava!	\$23
Book	<i>I'm a Volcano!</i>	\$17
Book	<i>Kaboom! A Volcano Erupts</i>	\$14
Packaging & Processing Fee:		\$25
<b>Total Kit Replacement Cost:</b>		<b>\$125</b>

Material not supplied with Kit
Baking Soda
Vinegar
Red food coloring (optional)
Dish soap



Please verify all parts are present before returning.