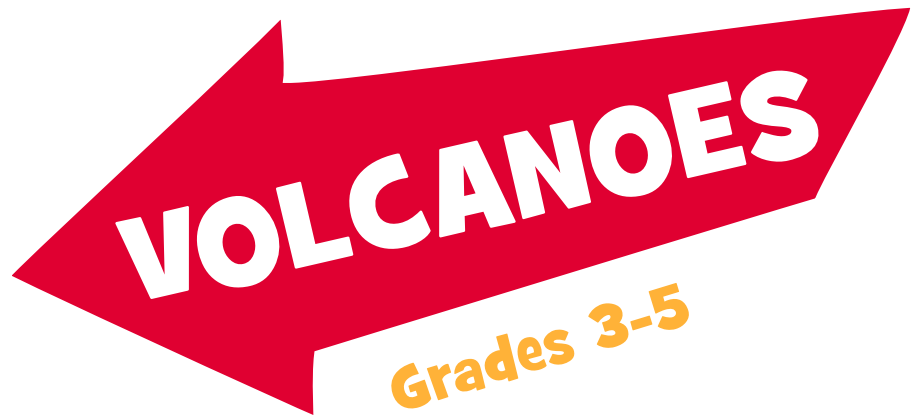


Keep this sheet.  
Collect them all!



## Explore your world with this Science-to-Go backpack



### Books in this backpack

- **Eruption! Volcanoes and the Science of Saving Lives**  
by Elizabeth Rusch
- **Everything Volcanoes and Earthquakes**  
by Kathy Furgang
- **How Does a Volcano Become an Island?**  
by Linda Tagliaferro
- **Volcano: The Eruption and Healing of Mount St. Helens**  
by Patricia Lauber
- **Volcano Rising**  
by Elizabeth Rusch

### Idea!

When you read "Everything Volcanoes and Earthquakes," start by looking in the index. Can you find the page where they talk about animals?

More books  
at your  
library

**Danger! Volcanoes.** Seymour Simon. E551.21  
**Eruption! The Story of Volcanoes.** Anita Ganeri. E551.21  
**Inside Volcanoes.** Melissa Stewart. J551.21  
**Volcanoes.** Franklyn Branley. E552.21  
**Volcanologist: The Coolest Jobs on the Planet.**  
Hugh Tuffen and Melanie Waldron. J551.2102

### Local Connection

Visit **Mount St. Helens** to learn about the volcano's 1980 eruption. The historic site has camping, a visitor center and plenty of hiking trails. Find more information at [mountsthelens.com](http://mountsthelens.com).

# ACTIVITY

## Gelatin Volcano

You're welcome to keep this sheet!

The lava that erupts from an active volcano is actually magma: hot, liquid rock from deep inside the earth. How does the magma travel from underground to the Earth's surface? You can see how in this simple volcano model. "Magma" (colored water) moves upwards through sheet-like fractures in the surrounding rock (Jell-O). Watch and see—then eat your work!

### What you need:

- Single-serving cups of gelatin, like Jell-O brand. Pick a light color like lemon or orange.
- Push pin
- Towels or tray for collecting drips
- Food coloring (red, blue or green)
- Syringe or eye dropper

### Try this:

1. Prepare your volcano. Use the push pin to make holes in the bottom of a Jell-O cup. Try to make the holes just big enough to fit the tip of the syringe or eye dropper.
2. Lay down the towel to catch any drips.
3. Prepare your lava. The lava is just colored water. Use the food coloring to make dark-colored water.
4. Fill a syringe or eye dropper with the colored water and inject it—slowly—into the gelatin through the hole you made. What happens?
5. Refill and inject the water into the gelatin as many times as possible. Are there differences in the way the "magma" moves when it is inserted into different parts of the "volcano?"
6. Eat your volcano!

Adapted from Hawai'i Space Grant Consortium's Gelatin Volcanoes activity: [spacegrant.hawaii.edu](http://spacegrant.hawaii.edu)

### Going Further

Cut your "volcano" into vertical cross sections. Do you learn more about how the magma moves with this new view?