

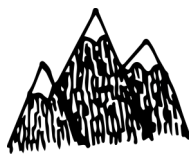


# Daisy at Home

## Recipe for a Small Glacier

### Supplies

- 1 pint of chocolate swirl or marble ice cream.
- 3 of your favorite kinds of cookies.
- 1/4 cup of light-colored syrup (butterscotch, marshmallow, etc.)
- Plastic sandwich bag or similar.
- A clear bowl.
- A spoon.



### Scientific Concepts

**Glacier:** A huge, thick sheet of moving ice. They are often found in mountains, but can be found in other places, too. Washington was half covered in a glacier during the Ice Age!

**Glacial till:** Materials, such as rocks and dirt, left behind when a glacier melts. Most of the soil in the Seattle area is made of glacial till.





# Daisy at Home

## Recipe for a Small Glacier

### Instructions

1. Crumble up the cookies and put them in the bowl. This represents dirt and rocks that will become glacial till.
2. Put two big scoops of the ice cream on top of the crumbled cookies. Glaciers begin as clean snow and ice, but they pick up dirt and rocks from the ground as they travel. So, the ice cream with its swirls represents this “dirty” glacier!
3. Slide the plastic sandwich bag over your hand. Then, slowly push down or “smoosh” the ice cream so it oozes! What do you notice? What happens to the cookie crumbles? A glacier moves in a similar way. As more snow falls on it, the added weight causes the glacier to “ooze” or “flow,” pushing the dirt in all directions.
4. To see how glaciers flow, heat up your light-colored syrup and pour it over the ice cream. This is like adding more snow to the glacier. What do you notice? Where does the ice cream go?
5. For more fun, add sprinkles, gummi bears, or other toppings! What do these additions represent on your glacier?



# Daisy at Home

## Recipe for a Small Glacier



## Make it a Troop Activity!

### Virtual Troop Meeting Ideas

- **Photo share.** Have your Girl Scouts complete this activity on their own, and then share a photo of their completed glacier with everyone!
- **Text or voice discussion.** Have your Girl Scouts share either one observation they made during the experiment, or one question they have about glaciers (or both!). If they asked a question, have them research the answer and share that with the troop!