

Glacier Goo Experiment

Purpose: To understand how ice moves and flows. How does gravity drive ice flow?

Materials Needed to Make Glacier Goo

- Elmer's white glue
- Baking Soda
- Saline solution
- Water
- One bowl

Instructions for making Glacier Goo

- In a bowl, mix $\frac{1}{2}$ cup of elmer's glue and $\frac{1}{2}$ cup of water.
- Mix one teaspoon of baking soda in the glue solution.
- Slowly pour and mix saline solution until a solid white goo forms. If the goo remains sticky, add more saline to achieve desired consistency.

Materials for Glacier Goo activity

- 1 piece of flat cardboard or stiff mat board
- Erasable marker
- Glacier Goo
- Plastic wrap

Procedure for Glacier Goo Activity

- Cover the piece of cardboard/mat board with plastic wrap.
- Roll the glacier goo into a ball and place it in the middle of the wrapped mat. Do not flatten the goo.
- Using the erasable marker, quickly draw a circle around the rolled glacier goo.
- Hypothesize whether you believe the glacier goo will extend beyond the drawn circle.
- Allow the goo to relax for a few minutes and return to check for results. Determine if the goo flattened and extended outside of the circle. Did the results support your hypothesis?