

Gather Activity Supplies - see supplies sheet for Bergy Bits activities

- Glacier Ice Flow Activity:
 - Place the matted grid board in the plastic box to create a ramp.
 - Mound the glacier goo into a ball and insert a toothpick straight into the center

Make a prediction: will the top flow faster than the bottom? Or will the bottom flow faster than the top? If the top flows faster, the toothpick will tip forward. If the bottom flows faster, the toothpick will tip backwards. *Note:* Do not let students see picture (2) or (3) until the end of the activity





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 Mound goo and toothpick is inserted perpendicular to the glacier pointing straight up.

2) As goo begins to flow watch what happens to the top of the toothpick.

3) As goo continues to flow watch what happens to the toothpick.

Describe your observations:

- 1) What happened to the toothpick?
- 2) What part of the glacier is flowing the fastest?
- 3) Friction slows things down. Where is the 'friction' on the ice in this activity?
- 4) How do you think this activity relates to a real glacier moving in the polarregions?

More Activities: www.ldeo.columbia.edu/polareducation