

# A Model Glacier

## Procedure

- 1. Collaborate** Work with a partner. Put about 2 cm of sand and small pebbles into a paper cup. Add water until the cup is three-fourths full. Place the cup in a freezer until the water is frozen solid. This should take about 24 hours. **Safety:** Wear goggles.
- 2.** Remove the cup from the freezer. Tear away the bottom part of the paper cup from the ice block. Leave some paper around the top of the cup to use as a holder.
- 3. Observe** Place your ice block with the sand side down on a bar of soap that is held in place by your partner. Grasp the paper holder and press down as you rub the ice block over the soap. Observe the effects of your model glacier (GLAY shur) on the soap. A **glacier** is a large mass of slow-moving ice that flows down a slope.
- 4. Record Data** Record your observations on the lines below.

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## Conclusion

Write the answers to the questions below.

1. **Use Models** What happened to the soap when you rubbed the ice block over it? How might your ice block be like a glacier? How is it different?

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2. **Infer** Think about what you observed. What can you infer about the effects that a glacier would have on Earth's surface?

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## Investigate More!

**Research** Find out about the effects of glaciers on Earth's surface. Can effects of glaciers be seen in your state? Use the Internet or library to find answers.