



# Movers and Scrapers

Name \_\_\_\_\_ Date \_\_\_\_\_

## Define

Firn \_\_\_\_\_

Glacier \_\_\_\_\_

Gravity \_\_\_\_\_

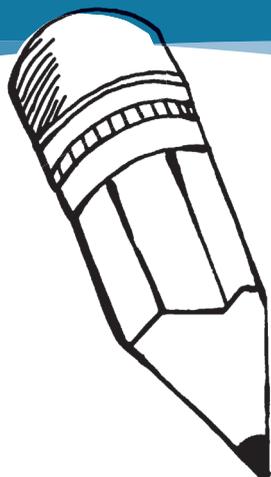
Current \_\_\_\_\_

Erosion \_\_\_\_\_

## Demonstrate the power of glacial erosion

The day before the activity, put the gravel and rock mixture (various sizes) in the bottom of the small plastic container. Add just enough water to cover most of the gravel and rock mixture (several rock points should be exposed). Freeze the container until the water is solid.

- 1 Using a rolling pin or large dowel, flatten the modeling clay into a rectangle approximately 20 x10 x 1 cm.
- 2 Using the towel to safely grip the ice, place the block gravel-and-rock side down at one end of the clay.
- 3 Press down on the ice block and move it along the length of the flat clay surface. Sketch the pattern made in the clay by the ice block.
- 4 Next, press damp sand into the bottom of a shallow rectangle box. As in Step 2, move the ice block gravel-and-rock side down along the surface of the sand while pressing down lightly.



### Observe and record

1. Describe the effects of moving the ice block over clay and sand.

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2. Did any material from any surface become mixed with material from the ice block?  
Did the ice block deposit material on any surface? \_\_\_\_\_

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3. What glacial land features are represented by the features of your clay model?  
Your sand model? \_\_\_\_\_

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4. Based on your observations, predict the result of glacial erosion on rock. \_\_\_\_\_

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