

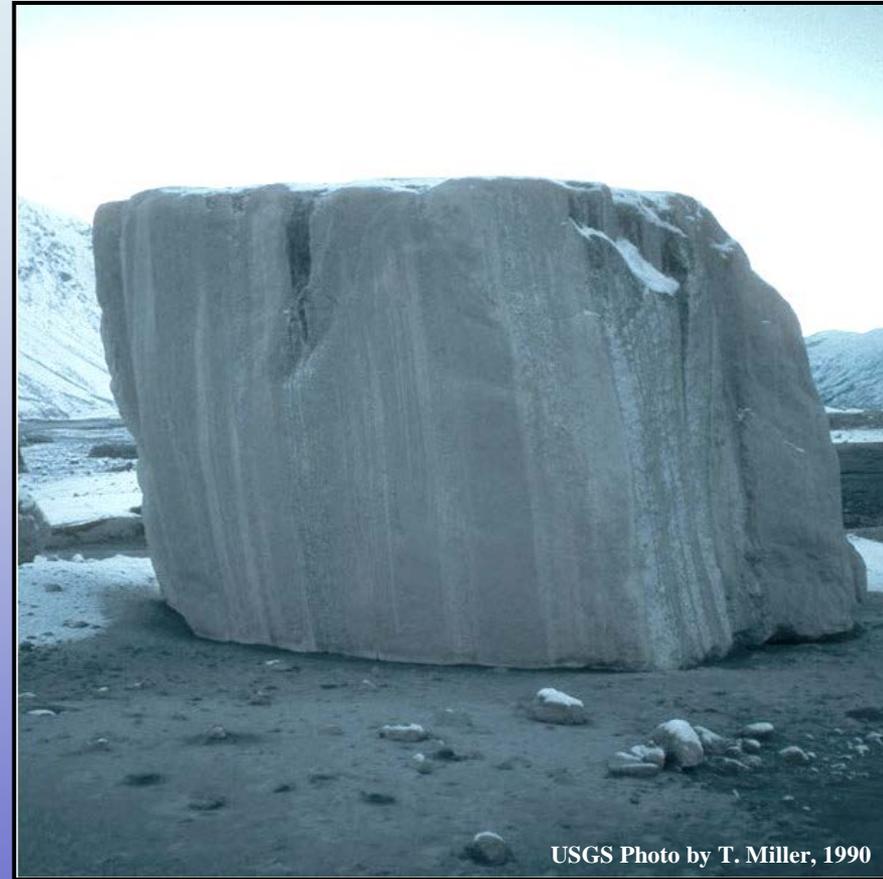
EDIBLE LANDSCAPES

What does ice cream have to do with
landscapes?

**In your
experiment, what
did you think the
ice cream
represented?**

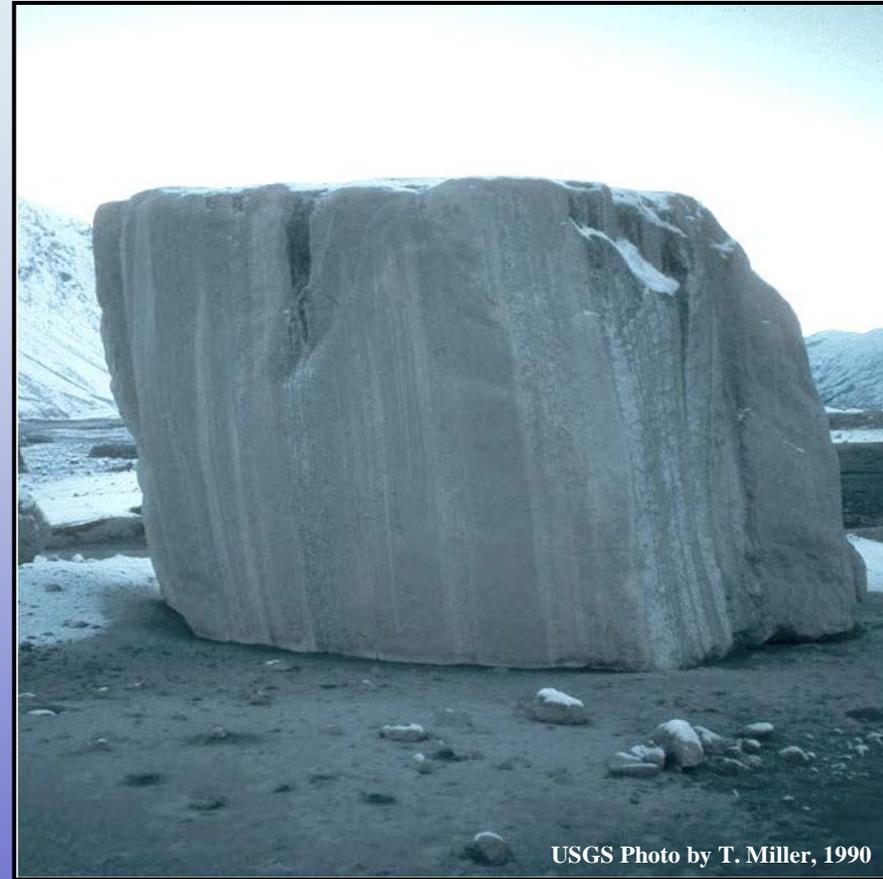


**The ice cream in
your experiment
represents the ice
that can be found in
a glacier.**



USGS Photo by T. Miller, 1990

A glacier is a large mass of ice that persists over time and flows internally.



USGS Photo by T. Miller, 1990

A glacier originates on land and moves downslope under the influence of its own weight and gravity.



Snowfall and ice buildup naturally place pressure on a glacier.

What did you do to your glacier that simulated the pressure exerted on a glacier from gravity or snowfall?

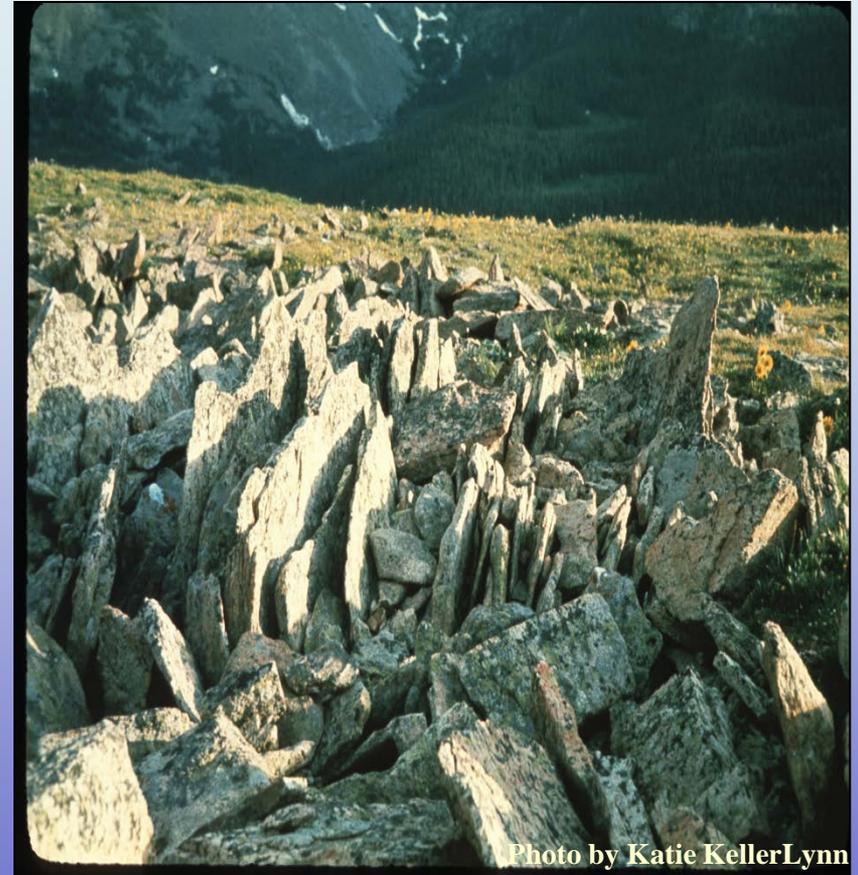
**You
squeezed
it!**



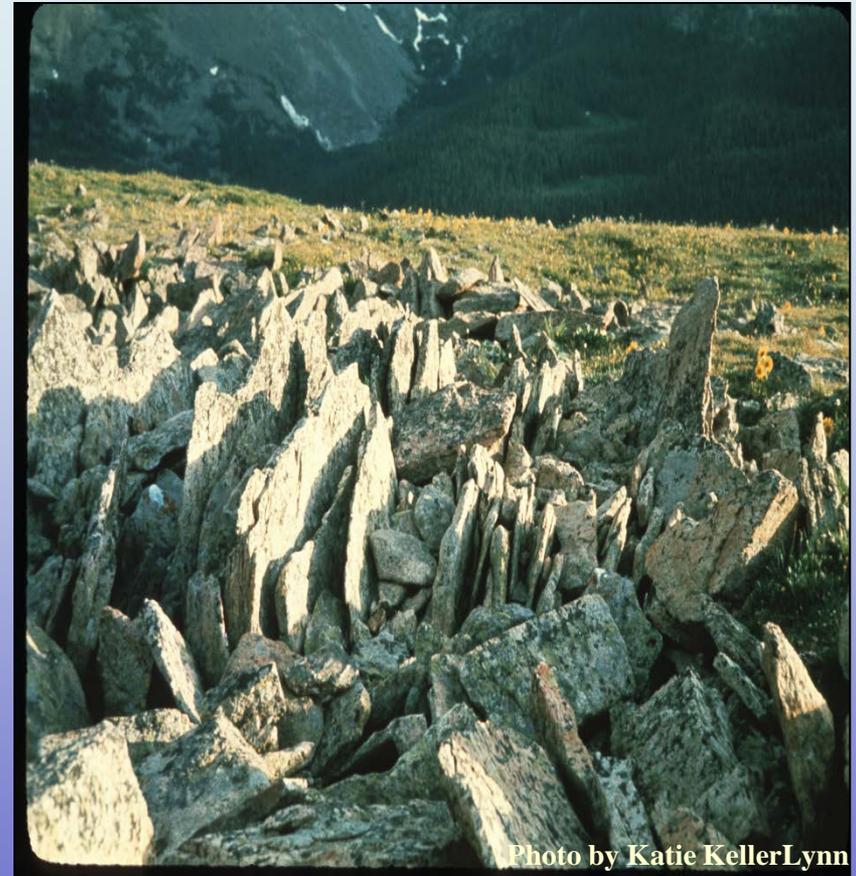
**In your
experiment, what
do you think the
graham crackers
represented?**



**The graham
crackers
represented
soil or land
disturbed by a
glacier.**



Moving glaciers carve out large chunks of land and act like sandpaper as they wear down and erode the landscape.



This process is called **glacial scouring.**

**What did you do in
your experiment to
simulate glacial
scouring?**

**Sliding your ice
cream glacier
backwards created
striations in the
graham cracker
crumbs.**



**As real glaciers
retreat, they
reveal a scarred
and scoured
landscape.**



**In your experiment,
what did you think
the chocolate chips
in the ice cream
represented?**



Rocks found in a
glacier

**In your experiment,
what did you think
the **candy**
represented?**



Rocks moved or disturbed by a glacier

**In your experiment
the chocolate chips
and the candy both
represented rocks
picked up or moved
by a glacier.**



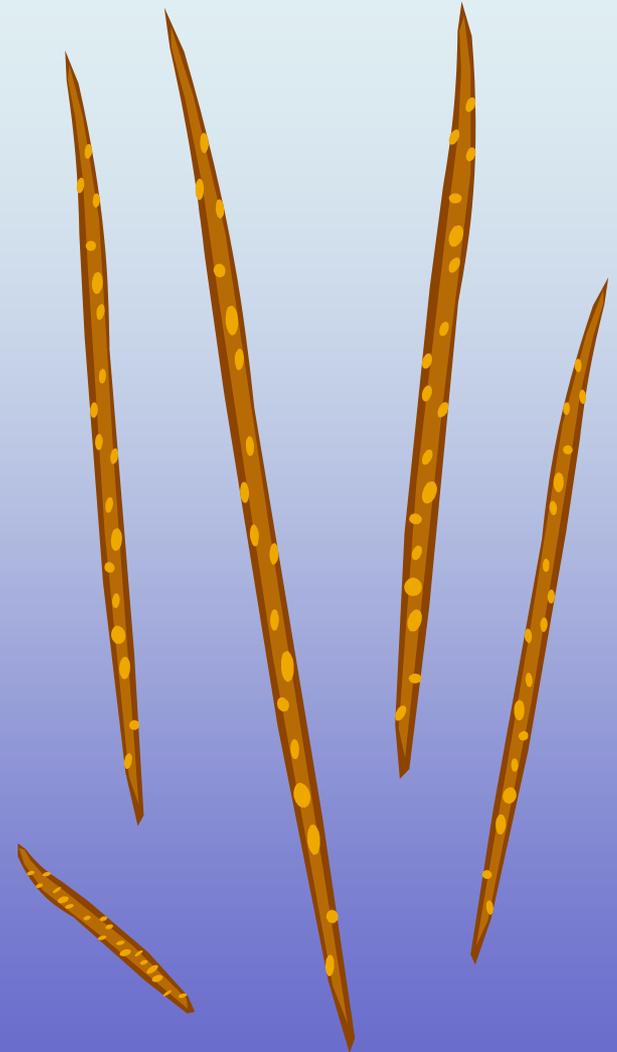
USGS Photo by Bruce Molnia

Materials, such as rocks and dirt, that are picked up and moved by the force of a glacier, are called **glacial till.**



USGS Photo by Bruce Molnia

**In your
experiment, what
did you think the
pretzels
represented?**



**The pretzels
represented the **trees**
and other organic
debris that can be
picked up and
carried by a moving
glacier.**



**Using the information you
learned in this activity,
describe how your ice cream experiment
relates to the formation of landscapes
like the one in the following picture.**



Denali National Park - NPS Photo