



Education and Research: Testing Hypotheses

Name: _____

Date: _____

Period: _____

“I’m Melting, I’m Melting!”

Glacier Webquest

Directions: Now that we have observed some models of glaciers and ice, use the resources below to investigate and answer the questions that follow. Keep in mind that the answers to the questions may not be in order- you may need to come back to a question or a resource later.

Resources:

A. YouTube Video- “What is a Glacier?”:

<https://www.youtube.com/watch?v=fleXP9ljZ-o>

B. YouTube Video- “Glacier Erosion”:

<https://www.youtube.com/watch?v=TuDwf-ul77c>

C. National Snow and Ice Data Center:

<https://nsidc.org/cryosphere/glaciers/questions/what.html>

D. USGS Data on areas of named glaciers:

https://nsidc.org/data/google_earth/

E. Vimeo: <https://vimeo.com/5963395>

F. Glaciers and climate: <http://www.grid.unep.ch/glaciers/pdfs/2.pdf>

G. Satellite system tracks glaciers' flow in real time -

<http://www.nature.com/news/satellite-system-tracks-glaciers-flow-in-real-time-1.21165>

Questions:

1. What are glaciers?

2. What qualifies an ice mass as a glacier?

3. where is Earth's largest glacier? What is the glacier named? How large is the glacier?

4. Where and how do glaciers form?

5. Where on Earth are glaciers located? Why do they still exist there?

6. How does elevation affect glacier formation?

7. What types of glaciers are there? Describe three.

8. Why do glaciers move?

9. How do glaciers change the landscape?

10. Why is the presence of ice important to Earth's climate? What does the ice do?

11. BUT- why is this glacier different? Use your answers and discoveries from the previous questions in this webquest to explain why. <https://remotesensing.usgs.gov/gallery/gallery.php?cat=8#582>
