

# Glaciers



1. What is a glacier? Why is the study of glaciers important and how are glaciers studied today?

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2. Create a game (such as a matching game, board game, trivia, etc.) that explores and defines the following terms as they relate to glaciers:

- a. Crevasse
- b. Firn
- c. Glacial drift
- d. Glacial erratic
- e. Glacial lake
- f. Icefall
- g. Kettle lake
- h. Névé
- i. Paternoster lake
- j. Plucking
- k. Serac
- l. Subglacial stream
- m. Tarn
- n. Terminus

**Date completed** \_\_\_\_\_

3. How are glaciers formed? Where can they be found? On a map, highlight the places glaciers can be found today.

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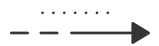
4. Name the two major types of glaciers and two subtypes of each.

- 1. \_\_\_\_\_
- 2. \_\_\_\_\_

5. On a diagram of a glacier, label the following parts and how they work together to cause glacial movement:

- a. Accumulation zone
- b. Ablation zone
- c. Equilibrium line

**Date completed** \_\_\_\_\_



6. Explain how a glacier advances and retreats.

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7. Know the difference between valleys formed by rivers and streams, and valleys formed by glaciers.

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8. Describe the two main ways in which glaciers can move.

1. \_\_\_\_\_
2. \_\_\_\_\_

9. Draw, photograph, model, or describe the following landforms created by glaciers:

- a.** Arête
- b.** Cirque
- c.** Col
- d.** Drumlin
- e.** Esker
- f.** Fjord
- g.** Glacial horn
- h.** Kame
- i.** Nunatak
- j.** Outwash fan
- k.** Roche moutonnée
- l.** Striation
- m.** Trim line

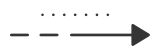
**Date completed** \_\_\_\_\_

10. What is a moraine? Name and describe three types of moraines.

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1. \_\_\_\_\_
  2. \_\_\_\_\_
  3. \_\_\_\_\_

11. With your class, discuss safety while on or around glaciers.

**Date completed** \_\_\_\_\_



12. Evidence of glaciers that have since disappeared can still be seen all over the world. From a Biblical viewpoint, discuss with your class how these might have been formed.

**Date completed** \_\_\_\_\_

13. When something is caught in a glacier, it is often preserved like a time capsule for decades or even hundreds of years, giving us great opportunities to study the past. Creatively present one of these discoveries to your group.

**Date completed** \_\_\_\_\_

14. Do two of the following:

- a. Visit a glacier or a place where glaciation has occurred and discuss with your group or write a 200-word report about what you saw. Include any landforms that you saw.
- b. Watch a video about glaciers and discuss with your group or write a 200-word report about what you saw.
- c. Draw or paint a picture about something you had fun learning about while studying glaciers.
- d. Talk with your group, write about, or make a short video about a real glacier study or conservation project.

**Date completed** \_\_\_\_\_

## **Skill Level 2**

Original Honor 2024

