

## Part 1.

1. What is drift?

## Part 2.

2. Describe a valley glacier.

3. What is the difference between a valley glacier and an ice sheet?

## Part 3.

4. Define *snow line*.

5. Can glaciers develop solely below the snow line? Why or why not?

## Part 4.

6. Describe how a glacier is born.

**Part 5.**

7. What is necessary for a valley glacier to occur?
  
  
  
  
  
  
  
  
  
  
8. Which continent is the only one where valley glaciers don't occur?

**Part 6.**

9. What is the difference between an ice sheet and a valley glacier?
  
  
  
  
  
  
  
  
  
  
10. What are small ice sheets called? Large ice sheets?

**Part 7.**

11. What causes glaciers to move?
  
  
  
  
  
  
  
  
  
  
12. What causes a glacier to move quickly? How fast can they go?
  
  
  
  
  
  
  
  
  
  
13. What is a *crevasse*?

**Part 8.**

14. What determines how low a glacier will go?
  
  
  
  
  
  
  
  
  
  
15. What is the *ice front*?

16. What determines whether a glacier is receding, remaining stationary, or moving forward?

17. Describe what *calving* is.

**Part 9.**

18. Draw a picture showing the intersection of two glaciers. Clearly label the moraines (lateral, medial, and end).

19. What is rock flour?

**Part 10.**

20. How does a glacier erode the rock that it travels over?

21. What are striations?

22. What is a *cirque*?

23. What is an *arête*?

**Part 11.**

24. What are the characteristics of a glacial valley?

25. What is a *hanging trough*?

UNIT 15 (CH. 11) → GLACIERS & EROSION

1. VALLEY GLACIER / ALPINE
2. CONTINENTAL GLACIER
3. SNOW LINE
4. FIRN / NEVE
5. ICE SHEETS
6. NUNATAKS
7. ICE CAPS
8. CREVASSES
9. ICE FRONT
10. CALVING
11. MORAINES
12. ROCK FLOUR
13. STRIATIONS
14. ROCHES MOUTONNEES
15. CIRQUE
16. ARETE
17. HORNS / MATTERHORNS

18. *Glacial Trough*

# Earth Science 11 Unit 15 Test A

What is a slow moving mass of ice covering a high mountain valley called?

What is the lowest level of permanent snow called?

What causes a glacier to move quickly?

What is an *arête*?

What is another name for scratches in bedrock caused by glaciers?

Describe glacier calving.

Where are ice sheets found?

What are rock materials foreign to an area in which they are found called?

Where are lateral moraines found?

What are crevasses?

Be able to describe the differences between a glacier which is receding, remaining stationary, or advancing. (6 marks)

Be able to explain in detail what causes glacier to move quickly and how fast it can move. (4 marks)