

Part 1.

1. What is the most effective agent of erosion? Where does it get its energy?

Part 2.

2. Describe how running water wears down the land.

3. What is abrasion?

Part 3.

4. Describe the three ways that water removes weathered rock.

5. What is *bed load*?

6. What percentage of a river's load is carried by each of the three methods?

Part 4.

7. What determines the carrying power of a stream?

8. Describe what determines the speed of a stream.

Part 5.

9. What shape does a young river valley typically have?

10. What causes a canyon to form instead of the more typical valley shape?

Part 6.

11. What determines how low a stream will cut its bed?

12. Why does the rate of erosion of the stream bed slow as the stream approaches its base level?

13. What is the consequence to the valley of a stream approaching its base level?

Part 7.

14. What is a gully? What causes them to grow?

Part 8.

15. What is a *divide*?

16. What is a *drainage basin* or *watershed*?

17. What is the largest drainage basin in Canada?

Part 9.

18. Describe how stream piracy works.

Part 10.

19. What are potholes? What are plunge pools?

Part 11.

20. Describe the process by which a waterfall recedes.

Part 12.

21. Draw a diagram showing how the flow of water and sediment causes a river to meander.

22. What is an *oxbow lake*?

Part 13.

23. What causes a river to deposit part of its sediment load?

24. When does the river lose all of its load?

Part 14.

25. What is a *delta* or *alluvial fan*?

26. What are *distributaries*?

Part 15.

27. Describe how a natural *levee* is formed.

28. Why are flood plains the most fertile agricultural areas?

UNIT 14 (CH. 10) → RUNNING WATER & EROSION

1. ABRASIAN
2. SOLUTION
3. SUSPENSION
4. BED LOAD
5. CARRYING POWER
6. DISCHARGE
7. BASE LEVEL
8. GULLY
9. HEADWARD EROSION
10. DIVIDE
11. DRAINAGE BASIN / WATERSHED
12. STREAM PIRACY
13. POTHoles
14. FLOOD PLAIN
15. MEANDERS
16. OXBOW LAKE
17. DELTAS

18. ALLUVIAL FANS

19. LEVEES

Earth Science 11 Unit 14 Test A

How does running water wear down the land?

How is a river's load carried?

What does speed and discharge determine in a river?

What is a divide?

What is a distributary?

Is water a good agent of erosion?

What is the shape of a young river?

What happens to the valley when a stream approaches base level?

What is caused by waterfall recession?

Draw and label an accurate diagram of how a meander forms. (4 marks)

Describe three ways that water moves weathered rock. (6 marks)