

Worksheet: Chapter 4

name: _____

Use complete sentences on those marked with an asterisk (*).

1. List the three “external processes.”
2. *Look at figure 4.1. Explain the role that each “external process” played in the formation of the Grand Canyon.
 - a.
 - b.
 - c.
3. *Explain the difference between chemical weathering and mechanical weathering.
4. *Look at figure 4.4. Explain how frost wedging contributed to the formation of this talus slope.
5. *How does mechanical weathering help increase the rate of chemical weathering? (figure 4.3)
6. *Explain what caused the change in pressure that led to the exfoliation shown in fig. 4.5.
7. *Explain what “exfoliation” is.
8. *Read box 4.1 on page 90. Summarize the article in one sentence.
9. Besides rock size (surface area), what two other factors determine how fast rock weathers?

10. *What is the point of figure 4.9?

11. *Look at figure 4.8. Explain why the rocks end up with such a rounded appearance.

12. *Look at figure 4.11. What is “differential weathering”?

13. *What is soil? Don’t say “dirt”!

15. Besides “plants and animals,” what are the 4 factors that control its formation?

16. *IN YOUR OWN WORDS, explain why “transported soil” is called “transported”. Do not use the word “unconsolidated”. Do use the phrase “parent material”.

17. *What is “mass wasting”? (p. 102)

18. What are mass wasting’s controls/triggers (4)?

17. *What is the point of figure 4.25?

19. Look at box 4.2 on p. 106. Which 2 factors/triggers caused this to happen?

20. *Look at and read figure 4.32. Which diagram on page 107 matches this situation? Explain your reasoning?