Lesson 8

Making Big Rocks into Small Rocks

Use the code table below to find the answers for each clue.

A	B	C	D	E	F	H	I	K	L	M	N	O	R	S	T	V	W
⚐	🖃	◎	♦	⌑	▲	✱	☺	☐	★	🕮	●	🔔	⌗	➔	☑	✂	⌘

1. W _ _ _ (☺ ● ♦)
2. _ E _ _ _ _ _ (⌘ ⚐ ☐ ⌑ ● ➔)
3. _ _ _ _ _ _ _ _ A _ _ _ (◎ ⚐ ⌗ 🖃 🔔 ● ☺ ◎ ◎ ☺ ♦)
4. _ _ _ T _ (⌗ 🔔 🔔 ➔)
5. _ H _ _ _ _ _ (◎ ⌑ 🕮 ☺ ◎ ⚐ ★)
6. _ E _ _ _ _ _ _ _ _ (🕮 ◎ ✱ ⚐ ● ☺ ◎ ⚐ ★)
7. _ R _ _ _ (▲ 🔔 ➔ ☑)
8. _ I _ _ (➔ ★ ☑)
9. _ _ N _ (➔ ⚐ ♦)
10. G _ _ _ _ _ (⌗ ⚐ ✂ ⌑ ★)





1. Nature uses this to “sandblast” rocks.
2. Acid does this to rocks.
3. This acid is made from carbon dioxide and water.
4. Part of plants that can crack rocks.
5. This type of weathering changes the minerals.
6. This type of weathering just breaks the rock into smaller parts.
7. ___ wedging is when water freezes, expands, and cracks the rock.
8. Small particles carried away by water.
9. Small particles in the soil. They can be used to make pottery.
10. Large particles of broken rock.

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Weathering



Usually we don't like it when things wear out, but it's OK for a rock to "wear out". This process is called "weathering". Weathered rocks are still useful to us. They become gravel, sand, clay, minerals, and soil. Read pp. 465 - 472 of Space and Earth Book B, and answer the questions to understand more about the process of weathering.

1. What are the two types of weathering? How are they different?

2. Natural acids break down rocks. Two of these acids are carbonic acid and humic acid. Explain how each of these acids is made naturally.

3. How much does water expand when it freezes? How does this affect the weathering of rocks and soils?

4. What is frost heaving?

5. What is the accumulation of rock debris at the base of a cliff called?

6. List the four possible components of soil.

7. Soil contains three layers: the A-horizon, B-horizon, and C-horizon. Describe what each horizon is made up of.

8. What is humus?

9. What is loam?

10. List three factors that affect the rate of soil formation.

11. What is mass wasting?

12. List an example of slow mass wasting and an example of rapid mass wasting.

Remember: Look for a nice rock and bring it to class next week so we can tumble it.



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