

**Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Our Planet Earth Test 4**

**Lessons 27-33**

**Fill in the Blank**

1. Geologists use the word \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ to describe bent rock layers.
2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ scientists say the geological evidence in the Grand Canyon points to “lots of water, a little time”.
3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ scientists say the geological evidence in the Grand Canyon points to “Lots of time, a little water.”
4. A \_\_\_\_\_\_\_\_\_\_\_\_\_\_ is an underground cavern.
5. A \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_is a person who explores caves.

**The answer to #6 are the answer choices for questions 7-10.**

1. The four types of caves are:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ are formed at the base of cliffs by moving water.
2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ are caverns that were formed as the outer layers of lava cooled while the hot lava continued to flow through it.
3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ are formed by the pounding of the waves pounding against the rocks along the shore.
4. The most common kind of cave is a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_cave.
5. The many beautiful structures inside caves are called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
6. Calcite deposits **that hang from the ceiling** of a cave are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ .
7. Calcite deposits that **build up on the floor** of a cave are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ .
8. A \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is formed when a (answer to #12) and a (answer to #13) grow

 together into one formation.

1. A \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ occurs when a thin layer of water flows over the surface of the

 cave leaves behind wavy formations.

1. The most famous cave in the United States is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_.

 It is located in \_\_\_\_\_\_\_\_\_\_\_\_\_\_ (state). **(Not on Word Bank)**

1. The most famous geyser in the world is \_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (2 words).

 It is located in \_\_\_\_\_\_\_\_\_\_\_\_\_\_ National Park. **(Not on Word Bank)**

1. A \_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (2 words) is the most common manifestation of heated ground water. The heated water rises or bubbles to the surface.
2. A \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ releases steam only.
3. Another name for this is a \_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_ (2 words).
4. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ are more active hot pools. The water continually bubbles and gives off steam.
5. A \_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_ (2 words) is a hot spring that contains more dirt than

 water.

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ shoot water hundreds of feet into the air.
2. The source of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ energy is heat from inside the earth that produces steam. The steam is brought to the surface of the earth and harnessed to warm buildings and/or produce electricity.
3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is the natural process of wearing down and breaking apart rocks.
4. Oxidation is when a metal reacts chemically with \_\_\_\_\_\_\_\_\_\_\_\_\_\_ .
5. \_\_\_\_\_\_\_\_\_\_\_\_\_\_ is the transport of weathered materials.
6. The most common kind of \_\_\_\_\_\_\_\_\_\_\_\_\_\_weathering is when certain minerals react chemically with acids.
7. The main mechanical force that breaks down rocks is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ .
8. The freezing/thawing cycle that pushes rocks up to the earth’s surface is called \_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (2 words).
9. The form of erosion caused by **running** water is called \_\_\_\_\_\_\_\_\_\_\_ erosion.
10. The lowest level of a stream is called its \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
11. The beginning (source) of a stream is called its \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
12. The difference between the beginning of a stream and its lowest point is called a \_\_\_\_\_\_\_\_\_\_\_\_.
13. The Great Dust Bowl occurred in the \_\_\_\_\_\_\_\_\_\_\_\_ part of the United States during the \_\_\_\_\_\_\_\_\_\_\_\_ (give the decade) **(Not on Word Bank)**
14. The movement of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (phrase) is called mass wasting.
15. The force responsible for mass wasting is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
16. \_\_\_\_\_\_\_\_\_\_\_\_\_\_ is the name of the process when mass wasting occurs very slowly (an inch or so per year).
17. A \_\_\_\_\_\_\_\_\_\_\_\_\_\_ is when large amounts of rocks and debris are pulled down a slope rapidly.
18. If the large amount of material falling rapidly is mostly snow and/or ice it is called an \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
19. Sand, silt, clay, and bits of decayed plants and animals form \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
20. \_\_\_\_\_\_\_\_\_\_\_\_\_ is the organic component of soil. It is decayed plant and animal matter. It is found in soil.
21. \_\_\_\_\_\_\_\_\_\_\_\_\_ is the cutting of level areas into sides of a hill so the fields resemble giant stairs.
22. Soil \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_is a measure of the air spaces in the soil.
23. How quickly water flows through soil is called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

**Essay Questions – Be Detailed and Specific**

**From an Evolutionists view** explain how the rock formations of the Grand Canyon were formed. Next explain how the canyon was carved. Your answer should be 4-6 sentences in length, be detailed, and specific.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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**From a Creationists view**, explain how the rock formations of the Grand Canyon were formed. Next explain how the canyon was carved. Your answer should be 4-6 sentences in length, be detailed, and specific.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Test #4 Word Bank**

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| avalanchecavechemicalcolumncreationcreeperosionevolutionistflow stonefoldedfrostfumarolegeothermalgeysergradientgravityheadwatersheavinghot springhumuslandslidelava tubesmouthmud potoxygenpermeabilityporositysandstonesea soilsolutionspeleothemsspelunkerspoutersstalactites | stalagmitessteam ventstreamterracingwaterweathering |