

Attachment A: Quiz

Please indicate if this quiz is being taken

a) before viewing the eTrip b) after viewing the eTrip

1. Yellowstone's geysers and hot springs exist because of _____.
a) solar radiation b) an extensive man-made plumbing system
c) past and ongoing volcanic activity
2. Hotspots are associated with extensive _____ activity.
a) sunspot b) volcanic c) construction
3. The Earth's upper layers are divided into _____ that are in slow, but constant, motion.
a) tectonic plates b) faults c) continental moraines
4. The North American continent drifting to the _____ and is passing over a hotspot.
a) northeast b) east c) southwest
5. The North American plate is moving at the rate of approximately one inch (2.5 centimeters) every _____.
a) year b) day c) century
6. Scientists believe the Yellowstone hotspot begins in the Earth's _____.
a) crust b) upper mantle c) core/mantle boundary
d) both b and c
7. The hotspot has created _____ under a large portion of Yellowstone.
a) areas of molten rock b) areas of solar radiation c) tectonic plates
8. Yellowstone National Park is presently on top of a hotspot that has been active for approximately _____.
a) 16.5 million years b) 300 years c) twenty thousand years
9. The first manifestation of the hotspot was in the vicinity of present-day _____.
a) Alberta, Canada b) southern Louisiana c) Nevada/Oregon border
10. The hotspot has triggered _____ eruptions in the Yellowstone area.
a) one b) three c) nineteen
11. The caldera eruptions of Yellowstone were approximately the same size as the 1980 eruption of Mt. St. Helens.
a) True b) False
12. Much of the central part of Yellowstone National Park is a giant

- a) glacier b) delta c) caldera

13. The massive volcanic eruptions in Yellowstone were also responsible for creating the area's mountain ranges.

- a) True b) False

14. The Yellowstone area _____ experiences earthquakes.

- a) infrequently b) frequently c) never

15. The Yellowstone Plateau was covered by an ice cap because it _____.

- a) was part of the area covered by the continental ice sheets of the Pleistocene Age
b) sits at a higher elevation than the surrounding area and has colder temperatures and more precipitation.

16. The Yellowstone caldera is difficult to see because _____.

- a) it is so large b) it has been changed by glaciers, lava flows, and erosion c) its sides and floor are now covered with vegetation d) all of the above

17. After the last major eruption in Yellowstone, lava continued to flow and hardened into a kind of rock called _____.

- a) sandstone b) granite c) rhyolite

18. The volcanic past of Yellowstone has an effect upon its current vegetation.

- a) True b) False

19. When an area of land overlying a hotspot begins to rise, an eruption will occur in the near future.

- a) True b) False

20. The Yellowstone area is no longer volcanically active.

- a) True b) False