

Geology of Rocky Mountain National Parks Name _____

Watch the video "**Yellowstone: Imprints of geologic Time**" and answer the following questions.

1. Where do 2.5 billion year old metamorphic rocks occur in Yellowstone National Park?
2. What are the major types of rocks that make up the sedimentary rock layers at Yellowstone? (list 3)
3. What is the name of the volcanic mountains in the Yellowstone area that formed when an oceanic plate descended below the continent?
4. What feature can be observed at Specimen Ridge?
5. _____ is an example of mountains that formed when large blocks of the earth's crust were displaced along faults 10 million years ago.
6. An area where molten rocks have risen persistently for millions of years which is anchored in the mantle is called a _____.
7. A deep crater-like depression formed by an explosive eruption is called a _____.
8. How many explosive eruptions occurred in the Yellowstone area?
9. When did the first explosive caldera forming eruption occur?
10. How much of the park was covered by glaciers (ice) 15,000 years ago?
11. What are some of the features that are evidence for past glaciation?
12. What is the heat source for the geysers, mud pots and other geothermal features at Yellowstone?
13. A vent of steam and gasses is called a _____.
14. What type of rock, rich in CaCO_3 , forms around Mammoth Hot Springs?