

Name: _____

Date: _____ Period: _____

Review: ESRT Review

Geologic History of New York State:

1. When did the Precambrian eon begin?
2. When did the Precambrian eon end?
3. About how many years ago did the atmosphere transition to an oxygen containing atmosphere?
4. When did the Phanerozoic eon begin?
5. When did animals with shells first appear?
6. In which era are we [humans] living?
7. What is the Mesozoic era best known for?
8. Tell the eon, era, period, and epoch in which we are alive?
9. When did the erosion of the Tectonic mountain occur?
10. When did the Atlantic Ocean first open?
11. During which three periods is there no record of rocks being formed in NYS?

Review: ESRT Review

12. From what time period(s) did the fossil *Cooksonia* come from?
13. What Epoch did the last advance and retreat of the continental ice occur?
14. What is the estimated time of Earth and the solar system?
15. How many years ago did the dinosaurs become extinct?

Radioactive Decay Data:

1. Which radioactive decay isotope has the longest half-life?
2. Which radioactive decay isotope has the shortest half-life?
3. Which radioactive isotope is used to date recent organic remains?
4. Which radioactive isotope can be used to date Earth's earliest rocks?
5. How long does it take for carbon-14 to disintegrate to nitrogen-14?