**ES104 Video Review Questions AGI Shaping the Planet NAME\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

Youtube Video (45 minutes) [*https://www.youtube.com/watch?v=yWezU1P6dM0&feature=youtu.be*](https://www.youtube.com/watch?v=yWezU1P6dM0&feature=youtu.be)

Watch the Youtube Video and answer the following review questions.

1. What famous theory in Earth Science was developed about 50 years ago?
2. What types of geologic phenomena are explained by this universal theory of the physical planet Earth.
3. Describe the significance of the seismic earthquake events that occur in eastern Africa, near Ethiopia.
4. How long as the East African rift been active? What three plates are breaking apart at this geologic wonderland?
5. Draw a cross section sketch, or image capture, depicting the spreading center forming in the East African rift.
6. True or False: the east African rift in Ethiopia is associated with earthquakes only, and no evidence of volcanism.
7. What is the main problem with water resource availability in this part of Africa?
8. Describe how is GPS being used to monitor plate tectonic motion in the east African rift.
9. True or False: the east African rift will eventually be connected with the ocean and back flood with sea water.
10. How many years in the future is it predicted that this ocean basin will be formed?
11. Describe the process of lithospheric plate motion? What are the three types of motion?
12. How fast is sea floor spreading occurring the Atlantic Ocean basin.
13. What is Pangaea and when did it exist?
14. How many cubic kilometers of salt deposits are buried beneath the Mediterranean sea?
15. What was the result in ocean salinity and global climate in association with the Mediterranean drying episode?
16. How long ago did the Mediterranean Sea fill into it’s present day geography?
17. True or False: tectonic plate collisions can result in compression and folding of rock strata in the subsurface.
18. Draw a sketch or image capture a convergent plate boundary showing an ocean-continental collision.
19. What happened geologically on the Island of Crete in the 1600’s?
20. True or False: Greece is tectonically pulling away from mainland Europe.
21. Describe the process of Normal Faulting.
22. True or False: Greece is currently being compressed and folded tectonically.
23. How many people have been killed by active volcanoes?
24. Describe the tectonic significance of the Himalayan mountain range? Why is it there?
25. How many earthquakes are experience every year in California?
26. What is the significance of the San Andreas fault in relation to human health and safety.
27. Which two plates are separated by the San Andreas Fault in California.
28. How many earthquakes are recorded each year globally by the U.S. Geological Survey in Denver?
29. True or False: earthquakes are harmless.
30. List the tectonic hazards that can cause death or destruction of property on planet Earth.