

**Endless Voyage Video Series
1 - Introduction to the Water Planet**

Watch the video and answer the following review questions.

1. What is the fundamental characteristic of the Earth that makes it conducive to life?
2. What are two “nicknames” given to our planet Earth?
3. What percentage of the planet earth is covered in water?
4. What is the average distance of the Earth to the Sun?
5. What is the dominant form of water on the planet? Solid, liquid, or gas?
6. True or False: water has a very poor ability to hold heat.
7. True or False: Earth’s oceans are effective at modulating the atmospheric temperature.
8. What is the approximate depth to which photosynthesis is effective in the world’s oceans?
9. Where is the majority of biomass on Earth contained?... on the continents or in the oceans?
10. True or False: The Big Bang Theory accepts the notion that all objects in the universe are currently collapsing together.
11. What is the estimated age in the past at which the “Big Bang” creation of the universe is hypothesized to occur.
12. True or False: our present universe is “transparent” and humans are capable of seeing through space to it’s furthest reaches.
13. How long after the “Big Bang” event is the Earth’s solar system hypothesized to have formed?
14. True or False: the four planets closest to the Sun are composed of rocky materials and metals.
15. Based on geologic data, what is the dominant gas that was hypothesized to compose the atmosphere during it’s early stages of development?
16. What percentage of the present-day atmosphere is composed of oxygen?
17. How are plants and their evolutionary development on the Earth, related to atmospheric composition?

18. True or False: the early history of the Earth is characterized by an oxygen-deficient atmosphere.
19. True or False: the moon is hypothesized to have formed from planetary collisions with planet Earth.
20. What is the most abundant element in the universe?
21. What is the chemical formula of water?
22. True or False: water is common in the universe?
23. What are the two hypotheses that are used to explain where the Earth's water was derived from?
24. Biologic components of the Earth are made out of the essential organic elements abbreviated as "CHON", what are the names of these elements.
25. True or False: the history of life of planet Earth is heavily dependent upon the presence of water.
26. What are the essential criteria that are used to define the term "LIFE"?
27. What are the two primary necessities or requirements for life to develop on a planet?
28. True or False: the goal of life is to eat, drink, and make more?
29. True or False: it is categorically not possible for life to develop on the deep ocean floor where there is no sunlight.
30. What is the maximum depth of the oceans below sea level?
31. True or False: without the oceans, the average temperature of the Earth would be ~130 degrees F.
32. True or False: I love the Earth.