

[GEOL193-J01](#)Marla Brownlee signed in: [Sign out](#) - [Options](#)

ST: GPS/GIS and Earth Science

High School Pre-Workshop Quiz: Check Your Knowledge

Please complete this True/False quiz. Your answers will help us determine what concepts to focus on throughout the week. Thanks!

1. Planet earth is 4.6 billion years old.

(1 point)

- True
 False

2. Once water has accumulated in the oceans it remains there

(1 point)

- True
 False

3. Gravity causes objects to move the same regardless of composition.

(1 point)

- True
 False

4. After water percolates into the groundwater system it does not move.

(1 point)

- True
 False

5. The chemical composition of earth's atmosphere does not change.

(1 point)

- True
 False

6. Past environmental conditions on Earth can be determined from glacier ice.

(1 point)

- True
- False

7. GIS is a system of 24-27 satellites orbiting the earth that send position signals enabling precise site location on the Earth's surface.

(1 point)

- True
- False

8. Thematic Mapping enables the integration of spatial data about a particular subject, like vegetation distribution, into a computer map.

(1 point)

- True
- False

9. Beaches are called rivers of sand because their sand is often derived from non-wave eroded debris.

(1 point)

- True
- False

10. Glaciers are called rivers of ice because they flow under the force of gravity, and they erode, accumulate, and transport sediment.

(1 point)

- True
- False

11. Wave-cut platforms can be formed into wave-cut terraces as a result of isostatic rebound or tectonic forcing.

(1 point)

- True
- False

12. Northern southeast Alaska is vulnerable to sea level rise due to warming climate.

(1 point)

- True
- False

13. Ablation refers to the net gain of ice mass each year in a glacier's ice budget.

(1 point)

- True
 False

14. Fiords (fjords) are deep-sided sea inlets that are drowned glacier troughs submerged by rising sea level.

(1 point)

- True
 False

15. Ground Moraine is deposited by glacier meltwater and is composed of well-sorted sediments that create well-drained surfaces.

(1 point)

- True
 False

16. The amount of water on our planet is about 1.38 billion km³ or 326 million cubic miles and is stored primarily in ice sheets and glaciers.

(1 point)

- True
 False

17. Sea level is dropping because evaporation exceeds precipitation over the oceans.

(1 point)

- True
 False

18. A stream beginning at 2000 meters above sea level travels 250 kilometers to the ocean over an average gradient of .008 m/km.

(1 point)

- True
 False

19. Base level is the lowest elevation to which a stream can erode its channel. This level can be below sea level locally.

(1 point)

- True
- False

20. Streams carry sediment as dissolved, suspended, and bed loads and the amount of each varies with climate and geologic setting.

(1 point)

- True
- False

21. The GPS system is an arrangement of computer hardware and software and geographic data that people integrate to analyze and visualize spatial data.

(1 point)

- True
- False

22. Tree Rings can provide more precise geochronologic information than radiocarbon (C-14) dating.

(1 point)

- True
- False

23. The arrangement of sedimentary layers in a river's cutbank is such that the oldest layers overlie the youngest layers.

(1 point)

- True
- False

24. Human activities are now so extensive on Earth's surface that we move more sediment annually than all of the rivers on Earth.

(1 point)

- True
- False

25. Receding Alaska glaciers have an effect on global coastal communities.

(1 point)

- True
- False