History Channel's Universe Series: The Moon Video Questions Geology/Earth Science Mr. Traeger	
Name:	Period: Date:
1.	How many moons currently are known to populate our solar system?
2.	What makes a moon different from a planet?
3.	How far away (in miles) from Earth is the Moon on average?
4.	How large is the Moon compared to Earth? Give a fraction of Earthos size.
5.	What are the temperature extremes on the Moon? High and low temperature?
6.	What are micrometeoroids? How do they affect the Moono surface?
7.	What is <u>regolith</u> and what is it like?
8.	What caused the large dark regions on the Moon know as maria?
9.	Does the Moon have plate tectonics like Earth does?
10.	What caused the mountains (highlands) to be formed on the Moon?
11.	Why does a mountain form on the inside of an impact crater like Tycho?
12.	Why is a lunar calendar preferable to a solar calendar? How many days are in a lunar calendar?
13.	Why does the same side of the Moon always face the Earth? Drawing a diagram here may be helpful.

14. What effects does the Moon have on the Earth in terms of gravitation and rotation rate?

15. How does the Moon affect our climate here on Earth?

16. What is the co-accretion hypothesis of the Moons origin? Why does the low iron content of the Moon disprove this hypothesis?

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17. What did George Darwin (son of Charles Darwin) find out about the distance of the Moon in relation to the Earth?

- 18. What was George Darwing fission hypothesis about the formation of the Moon? Why was it overturned? Think about spin rates of the Earth and Moon when you answer this one.
- 19. What does the capture theory say about the Moons origin?
- 20. How did the arrival of Moon rock samples from Apollo Missions in the late 1960¢ change our ideas about the Moon¢ origin?
- 21. What are basalts? What do they tell us about the Moons early formation?
- 22. What are breccias? What do they tell us about the nature of the craters on the Moon?
- 23. What is anorthosite? How does its age compare with the formation of the solar system?
- 24. What are volatile elements? How does a lack of volatiles on the Moon tell us about its early geologic history?
- 25. How do oxygen isotopes tell us that the Earth and Moon were possibly once together?
- 26. How did the fact that the Moon does not have large iron content lead to the Impact Theory of the Moons origin?
- 27. What are the basic ideas of the Impact Theory of the Moon formation? How long after the impact did the Moon form?
- 28. Why is there no sign of the giant impact today either on Earth or on the Moon?
- 29. What benefits would there be to having a lunar base for future space exploration?
- 30. What is the gravity of the Moon compared to that of the Earth? What IS gravity?