

***Earth: The Biography: Atmosphere Video Questions***

Name: \_\_\_\_\_ Period: \_\_\_\_\_ Date: \_\_\_\_\_

1. How many key layers does Earth's atmosphere have?
2. What are some basic characteristics of the troposphere? How high is it?
3. What are some basic characteristics of the stratosphere? How high is it?
4. Why was Joe Kittinger's jump from a hot air balloon so dangerous?
5. What are some basic characteristics of the mesosphere? How high is it?
6. What are some basic characteristics of the thermosphere? How high is it?
7. Why is the atmosphere referred to as a fluid?
8. How does the atmosphere act as a force of sediment erosion, transport, and deposition?
9. What is the heart of all weather? What other two ingredients must you have?
10. What happens over the Andes Mountains of Argentina when the warm, moist air mass from the Amazon Basin meets with a cold, dry air mass from Antarctica?

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11. How does lightning form?
12. How was Earth's original atmosphere formed? What gases was it made of?
13. What are stromatolites and why were they so significant from 3.5 billion years ago to the present?
14. Why was the industrial revolution's success dependent on stromatolites?
15. What is the chemical makeup of ozone and why was it so important to the success of life?
16. How has a lack of oxygen at high altitudes affected human reproduction?
17. How does carbon dioxide change the earth's climate?
18. How does melting permafrost lead to the release of methane?
19. How many times more potent a greenhouse gas is methane compared to carbon dioxide? How will this lead to runaway global warming?

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