

**Earth Episode 4: Atmosphere**

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1. What percent of our atmosphere is Nitrogen?
2. What percent of our atmosphere is Oxygen? Why does (most) life need it?
3. What fraction of earth's atmosphere is Carbon Dioxide?
4. Describe Earth's surface 4.6 Billion years ago..
5. Where did the ingredients for Earth's early atmosphere come from?
6. How much water was on the planet at this time? What form was it in?
7. What was the 'tipping point' that caused the first oceans to form?
8. What was life on Earth like 4 billion years ago? Where was it found?
9. What color was the first atmosphere?
10. What new type of life appeared just over 3 billion years ago? How did it change our atmosphere?
11. What were the main gasses in the Earth's early atmosphere?
12. What happened in the worlds' oceans when dissolved oxygen reacted with dissolved iron?
13. What had to happen in the oceans before Oxygen gas could escape into the atmosphere?
14. What process caused the Earth to turn Red?
15. What chemical process in the atmosphere caused the sky to turn blue?
16. What repeating cycle is thought to have led to the formation of complex molecules?
17. Where is the best place to find meteorites?