Honors Biology
Text Dependent Questions
"The Oxygen Holocaust"
Carmel High/Dooner

After reading "The Oxygen Holocaust" in <u>Microcosmos: Four Billion Years of Microbial</u>
<u>Evolution</u> by Lynn Margulis and Dorian Sagan, answer the following questions:

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1.	What are "stromatolites"? How tall were the ones in the hot springs in Saratoga, New York that were described by 19 th century geologist Charles Walcott?
2.	Based on the context, what is the meaning of the word "patina" (p. 113)?
3.	On p 111, the authors say that if the oxygen concentration had ever risen much higher than 21%, "the fossil record certainly would reveal evidence of world-wide conflagration". What is the meaning of the word "conflagration"?
4.	How are Chromobacterium violaceum involved in gold-mining operations?
5.	Oscillatoria limnetica has been described as having a "chameleon" physiology. Explain.
6.	How does the percentage of carbon dioxide gas in the Earth's atmosphere compare to the percentages of carbon dioxide gas in the atmospheres of Mars and Venus?

