Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period\_\_\_\_\_\_\_\_\_\_\_

MARS: Making the New Earth, documentary notes

As we watch the video, pay attention to the questions below. These highlight what I’m most concerned about in the video. Keep in mind that I’m not expressing an opinion for or against colonizing Mars, I am only showcasing one possible opinion.

1. Why is Mars currently not suitable for life?
2. What is the process of making a planet livable called?: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. List four things about Mars that would have to change for it to be livable for humans:
4. Compared to Earth, how big is Mars? Why might this affect life on Mars?
5. Temperatures on Mars can range from \_\_\_\_\_\_\_\_\_\_ degrees to \_\_\_\_\_\_\_\_\_\_ degrees.
6. Mars’ atmosphere is so thin that frozen carbon dioxide does what?
7. Dried up lake bed, river channels, and deltas tell us what about Mars?
8. What happened to most of the carbon dioxide from the early Earth’s atmosphere?
9. Venus used to be much like Earth, but what happened to it to make it the way it is today?
10. Mars was also much like Earth, but what happened to make Mars the way it is today?
11. Mars has a very thin atmosphere today. Where can we find the elements necessary to rebuild its atmosphere?
12. Mars has water! Where can this water be found on Mars?
13. List two ideas we have for melting the carbon dioxide ice at Mars’ polar ice caps?
14. People probably have the biggest practical influence on the atmosphere. What could we do on Mars to produce greenhouse gasses? Would normal greenhouse gasses be enough?
15. How long would this process take?
16. What would the conditions of this new ‘blue marble’ be like? What is Mars’ atmosphere now compared to? And what is wrong with it?
17. What element, essential for life, is missing in Mars’ soil?
18. What role do microbes, such as moss, play in making soil fertile?
19. Why are plants important for terraforming Mars into a human habitable planet?
20. What is the minimum temperature Mars would have to reach for pines to live? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
21. What would be important to know, concerning life, before we decide to start terraforming Mars?
22. Why wouldn’t we want to terraform Mars?
23. Why would we want to terraform Mars?
24. Do you think we can terraform Mars? Do you think we should terraform Mars? Why or why not?