

Name: _____

Period: _____ Date: _____

***The Sun* Documentary Video Questions**
Astronomy



1. What happened in 2003, regarding the Sun?
2. What all does the Sun control in regards to here on the surface of Earth?
3. Fall 2008, what did NASA launch and what was its target?
4. How many space probes scan and collect information about the Sun?
5. How long does it take light to go from the Sun to Earth?
6. What is the diameter of the Sun?
7. What is the phase of matter of the material on the Sun?
8. Where did the material of the Sun come from?
9. What process occurs in the Sun's core? What is it giving off?

10. What are the three outer regions of the Sun?

11. Which outer region of the Sun is the hottest?

12. How does a total solar eclipse help scientists study the Sun?

13. What is SOHO?

14. How does the corona get so hot?

15. What does nuclear fusion turn hydrogen into?

16. What is the coolest part of the Sun? (Temperature wise...)

17. Describe the rotation of the Sun. What is this called? What does this create?

18. What happens when the magnetic field lines pop?

19. Which probe was launched to study the connection between the magnetic lines and the heat of the corona?

20. Explain solar seasons. How can these affect us on Earth?

21. How long is a solar cycle?

22. How often can solar flares occur? How powerful can they be?

23. Describe the power of a mass ejection. How does this relate to a halo effect?

24. How are mass ejections so dangerous for astronomers at the ISS?

25. What happens when this hits Earth's magnetic field? What are the outcomes?

26. What happened in 1859?

27. What would happen if one of those flares or storms happened today?

28. Why is it a major advantage for scientists to now see the Sun in 3D?

29. How many sunspot free days were recorded in 2008? What are they relating this information to?

30. What would happen if the ozone layer was gone?

31. How could the Earth's ozone layer be completely eliminated?

32. What is the heliosphere?

33. How are fossil fuels formed and how do they trace back to the Sun?

34. What are the pros and cons of a greenhouse effect?

35. What are the pros and cons of human exposure to sunlight?

36. What's a solar cell and how is that beneficial for us?

37. What plant has helped scientists replicate the photosynthetic process? What's its role?

38. Describe the remainder of the Sun's timeline.

39. What will happen to Earth and the Sun gets to the end of its lifespan? Will we see this anytime soon?