1. How long would it take the Earth to freeze if the Sun were suddenly “turned off”? 

2. What is the “fuel” for the Sun? 

3. How do the scientists at Big Bear observatory make the Sun’s features viewable? 

4. What are the bright patches seen on the Sun’s surface? 

5. What are the dark patches seen on the Sun’s surface? 

6. What force stops the Sun from blowing itself to pieces? 

7. How long ago did the Sun begin to form?
8. How far from the Sun does SOHO orbit and why?

9. What “molds, shapes, and constrains” everything we see on the Sun?

10. Why is the McMath Solar Telescope built into a deep tunnel?

11. What substances are used to cool the McMath Solar Telescope to about 3 K?

12. What are the massive loops that trace out extended portions of the Sun’s magnetic field called?

13. How long would it take a solar flare to traverse a distance equal to the width of the United States?

14. Why are solar flares dangerous?
15. Where is the National Space Weather Center located?

16. How long does it take the X-rays and UV-rays released by a flare to reach Earth?

17. What was our first clue to the existence of the solar wind?

18. What force is used to squeeze plasma together in an Earth-bound fusion generator instead of gravity?

19. What part of the Sun is seen during a total solar eclipse?

20. What medium is used at the Solar Neutrino Observatory to detect neutrinos?

21. How much time before our Sun swells and destroys the Earth?