

Answer the following as we go through the powerpoint on the Sun.

1. The sun is a	_____
2. What color is the sun?	
3. How old is the sun	
4. How far away is the sun?	
5. When will the sun die?	
6. How many Earth's can fit in the sun?	
7. What is the sun's rate of rotation?	
8. What is the sun's rate of revolution?	
9. What is the most abundant element?	
10. What state is H in, on the sun?	
11. % of Hydrogen and % of Helium?	
12. How are new elements created?	
13. What is a photon?	
14. How fast does a photon travel?	
15. How long does it take a photon to get here?	
16. What are sunspots?	
17. Ptolemy view of sun?	
18. Copernicus' view of the sun?	
19. Galileo's view of the sun?	
20. How did Galileo prove this view?	
21. What is a solar eclipse?	
22. In which phase of the moon does a solar eclipse occur?	
23. What is the fuel for the sun?	
24. What happens when it runs out of fuel?	

THE UNIVERSE: SECRETS OF THE SUN

Follow along with the video and answer the questions. The questions are in order of their appearance in the show.

#	Question	Answer
1	What 2 elements make up most of the Sun's mass?	
2	What type of star is the Sun?	
3	What is the process by which the Sun produces energy (heat/light)?	
4	What are the particles called that bring heat and light from the center of the Sun to Earth?	
5	How long does it take light that leaves the Sun to reach Earth?	
6	What drives all outbursts of explosions on the Sun?	
7	What evidence do scientists see on the Sun that proves the existence of many magnetic field lines?	Coronal _____
8	What results when a high energy flare shoots enough material back towards the Sun's surface?	
9	What is a CME?	Coronal _____ ejection
10	What is the trigger for most solar magnetic storms?	
11	What evidence do we see in the sky when the solar magnetic storms break through our magnetic shield?	
12	How long did it take for the fastest coronal mass ejection ever recorded (in 1859) to get to Earth?	less than _____ years
13	What technology did it affect?	
14	How long is the Sun's sunspot cycle? (time)	_____ years
15	How often does a solar eclipse occur on the Earth?	every _____ years
16	If you stayed in one place on Earth, how often would a solar eclipse occur?	_____ years
17	When will the Sun die?	in about _____ billion years
18	What will the Sun expand to?	
19	What will happen to Earth's orbit?	it will _____ as the Sun expands
20	About what size will the Sun be once it has cast off its outer shell?	the size of the _____

