

WHEN STARS GO BOOM



Level ONE Questions (#1-3)

1. What is the Sun? A. a planet B. a moon C. a star D. lightning
2. Which is larger—the Sun or the Earth?
3. Can you think of two things that the Sun provides for us?

Level TWO Questions (#4–6)

4. What constellation is pictured on this poster?
5. A star 10-20 times bigger than the Sun
 - A. Has a shorter lifespan than the Sun.
 - B. Lives about the same amount of time as the Sun.
 - C. Lives 10-20 times longer than the Sun.
 - D. Will only live 10-20 more years.
6. What common force that holds you to the Earth gives a star its energy?

Level THREE Questions (#7-10)

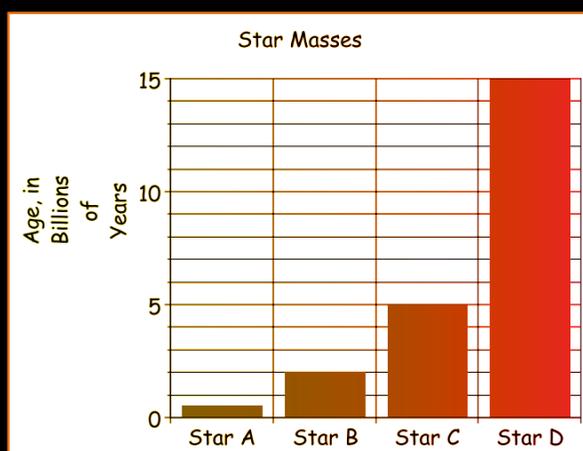
7. Scientists use many different tools to help them study stars.

Match the tool with information it provides.

- | | |
|---------------------------|-----------------------------|
| _____ small telescope | A. X-ray images from space |
| _____ Hubble telescope | B. visual images from Earth |
| _____ Chandra observatory | C. visual images from space |

8. Was the star that exploded and caused the Crab Nebula smaller or larger than our Sun?
Based on the information presented on the poster, explain how you know.

9. Using the chart at the right, which star could currently represent the Sun?



10. Based on studies of rocks, among other things, the Earth is at least 4 billion years old. Planets have also recently been discovered around other stars. Could the star that formed supernova 1987A have had a planet as old as the Earth?
Explain how you know this.