

Entry For: \_\_\_\_\_  
today's date

What a relief! I am so \_\_\_\_\_ that the Sun won't explode as a supernova after all.

The Sun is the wrong kind of star. Only massive stars can explode, ones that are the color white or blue. Stars like the Sun, which are yellow, only get bigger, change colors to red, and then finally fade. And that makes me feel so \_\_\_\_\_.

Amazingly, the stars that are less massive than the Sun, which are red colored, don't even do that! They just hang around, \_\_\_\_\_!

There is something else that we discovered from the data. The lifetime of a star depends on its mass! red colored stars, which are less massive than our Sun, live a long time. But, blue and white stars, which are many times more massive than our Sun, explode. The white colored stars explode more quickly than the blue ones.

And another thing, the color depends on the mass as well! White colored stars are very bright, white colored stars are not quite as bright, then yellow colored stars are the next brightest and finally the red stars are the dimmest. Of course, I mean that if two stars were right next to each other the

white and blue would be brighter than the red or yellow stars.

I mean, a candle in your hand looks brighter than city lights from kilometers away! And the Sun looks really bright, but that's because it is so much closer to us than other stars.

Well, that's it for today, but what a day! I am really \_\_\_\_\_ about the work we did today and I feel \_\_\_\_\_ that the Sun won't explode.