

## **STAAR Science Tutorial 35** **TEK 8.8B: The Sun**

**TEK 8.8B:** *Recognize that the Sun is a medium-sized star near the edge of a disc-shaped galaxy of stars and that the Sun is many thousands of times closer to Earth than any other star.*

Our Sun is a star, much like all of the other stars that are visible in the night sky. What makes our Sun different than other stars in the sky is that it is so much closer to Earth, and thus so much brighter. The next nearest star to Earth (other than our Sun) is Proxima Centauri, which is about 4.2 light years away from Earth. This is 263,000 times further away from Earth than our Sun. [Our Sun is 0.000016 light-years away from Earth.] While there are 11 stars within 10 light-years of Earth, most of the other stars visible in the night sky are many thousands of times further away. With a telescope, stars many millions of times further away from Earth are visible. See Tutorial 36: Light-Years for a detailed discussion of distance measurement in space, and the distances between Earth and other objects in the Universe.

Compared with the other stars in our galaxy, the Sun is a medium-sized star. Typical main-sequence stars in our galaxy vary in size from 0.1 times less massive than our Sun, to about 40 times more massive, with a radius range of 0.1 to 10 times that of the Sun. The luminosity or absolute brightness of main-sequence stars in our galaxy varies from 0.0008 times as bright to 500,000 times brighter. Giant and supergiant stars near the end of their life can become much, much larger in diameter and brightness.

The surface temperature of our Sun, 5,500°C, is about average when compared with other stars. About half of the stars in our galaxy are cooler, and about half are hotter. The surface temperature of stars ranges from 3000°C to 30,000°C, though very few stars are over 10,000 C. The color of our Sun, yellow, is at about the middle of the star spectrum, with red at the cool end and blue-white at the hot end.

One characteristic of our Sun that is a bit unusual is that our Sun is not part of a binary (double) or multiple-star system. Our Sun has no star partner.

Our Sun is expected to have a total life span of about 10 billion years. It is currently about 4.6 billion years old, in the middle of its "main sequence" phase of life. During this phase, it fuses hydrogen into helium in its core, with a temperature of about 15 million degrees Celsius. When all of its hydrogen has been fused into helium, the fusion process will temporarily stop, and the Sun will begin to collapse under the force of gravity. This compression at the core will increase the temperature. When the core temperature reaches about 100 million degrees Celsius, the fusion of helium will begin, and the Sun will expand to become a red giant. Once all of the helium has been fused to carbon, the Sun will collapse into a white dwarf, a very hot glowing ball of carbon. Eventually, the Sun will finally cool into a black dwarf. See Tutorial 34:

# Staar Science Tutorial 35 Tek 8 8b The Sun

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