



## ANSWERS

1. The Sun is the center of our solar system.
2. The planets in our solar system, including the Earth, orbit around the sun.
3. The Sun is a yellow dwarf star.
4. A dwarf star is one that has only average or low luminosity (brightness), mass, and size.
5. Almost all of the mass in our solar system (99.8%) belongs to the sun.
6. The Sun is composed of very hot gases. It is about 74% hydrogen.
7. At the sun's center, hydrogen atoms undergo nuclear fusion, a process in which they are constantly being converted to helium atoms. Fusion means to join together. Stars get their energy from nuclear fusion.
8. Most of the energy in our solar system and on Earth comes from the sun.
9. Humans have always studied the sun. In the 16<sup>th</sup> and 17<sup>th</sup> centuries, the astronomers Galileo and Isaac Newton discovered that gravity was the reason that the planets orbit the sun.