

Did you know that you live on a planet that revolves around the sun?



The Earth

And that the sun is just one of billions of stars in the Milky Way galaxy.



The Sun



The Milky Way

And the Milky Way galaxy is just one of billions of galaxies in the universe!



Galaxy



Universe

# SAMPLE PAGES FROM "The Sun Lapbook"

## The Sun

The closest star to our planet is the sun. It is located in the Milky Way galaxy. The sun is considered a medium size star or a "yellow dwarf" star. The sun rotates slowly on its axis. It moves around the galaxy. The sun is made up of about 70% hydrogen and 28% helium. Its temperature on the surface is about 10,000°F. Now that's hot!

The center of the sun is extremely hot. A process called "nuclear fusion" takes place there. Nuclear fusion is a process where atoms are joined and tremendous amounts of energy are released from them. Some of this energy travels out into space as heat and light, and some travels down to Earth. If you use a telescope to observe the surface of the sun, you can see something that looks like black spots. These are known as "sunspots." However, they are not spots at all. They are storms taking place on the surface of the sun. Large explosions, called "solar flares," send fast shooting particles from the sun down to the earth. When they make contact the earth, they cause a glow called an aurora.



The sun is very hot



Solar Flare