

# Our Beautiful Solar System Fac's



The sun is 93 million miles from the earth. It is 27 million degrees in its core. The sun is 864,000 miles in diameter. The sun is the source of all life on earth. Without it the earth would be a giant ice cube. It will become a red giant in 5 billion years and engulf our planet and will be hot enough to boil the oceans in 1 billion years. It is 4.5 billions year old about the same age as the earth.



The Earth is 8,000 miles in diameter  
If you compare the earth to a basket ball the moon would be a tennis ball. The earths inner core is 1,500 miles in diameter and is solid. The outer core is 2,800 miles in diameter and is liquid iron and nickle and is responsible for the magnetosphere which protects the earth from the suns radiation and without it life would not be possible.



The moon is 2,000 miles in diameter  
The moon is 225,623 miles from earth.  
If you compare the moon to a tennis ball then the earth would be a basket ball.



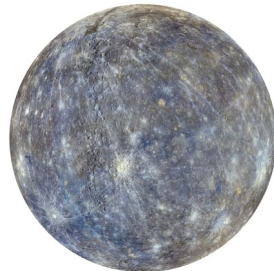
Light travels at 186,000 miles per second or 671 million miles per hour.  
Light takes 8.25 minutes to reach the earth from the sun. It would take 8 hours to span the diameter of the solar system.  
It would take light over 4 years to reach the next star closest to earth traveling at 671 million miles per hour.



Jupiter



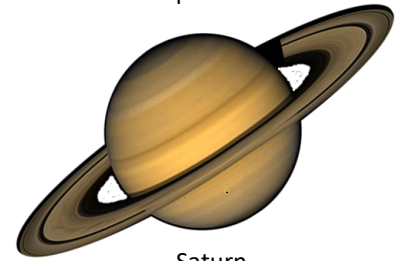
Mars



Mercury



Venus



Saturn



Neptune



Mercury  
Voyager 2 1986



Pluto



Cosmic  
Collections

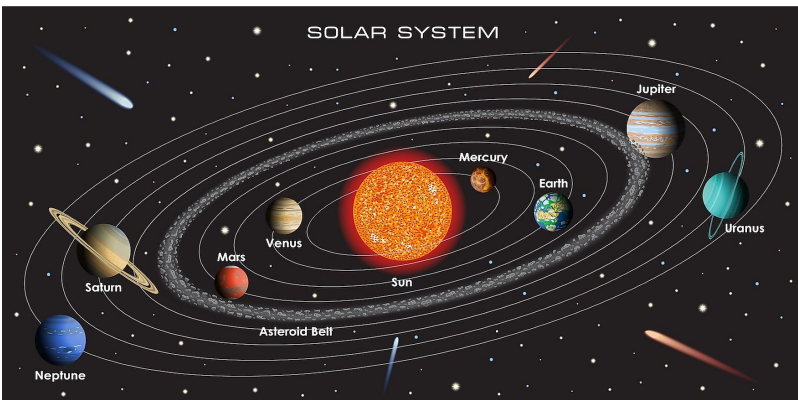
There are a estimated to be 1 trillion galaxies each with over 200 billion stars in the known universe. A tennis court with 3 feet of sand on it is around 300 billion grains.  
Most stars are believed to have planets orbiting around them.

Voyager 1 which just cleared the solar system after 40 years traveling at 38,000 mph would take 75,000 years to reach the next closest star Proxima Centauri. A bullet shot out of a 45 handgun travels at 566 mph.

The space station travels at 17,100 mph and orbits the earth every 90 minutes.

The Universe is amazing and huge.

*We are creating several cosmic info sheets.  
We are still working on this one.  
It is available on our cosmic collection page on our website.*



**Betelgeuse, a red giant star, is about 700 times bigger than the sun and about 14,000 times brighter.**