

Nov 25, 2011

1) The Sun



Warm-up:

The energy in the sunlight we see today started out in the core of the Sun _____ years ago – it spent most of this time passing through the dense atoms that make the sun and just 8 minutes to reach us once it had left the Sun!

30,000

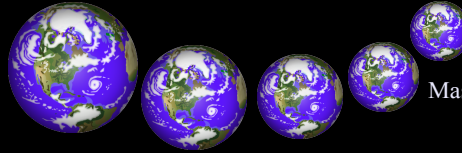




The Sun

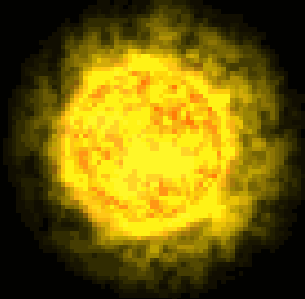
Sun Stats:

Radius: 695,000 km
Age: 4.5 billion years old
92% hydrogen
98% of our universe



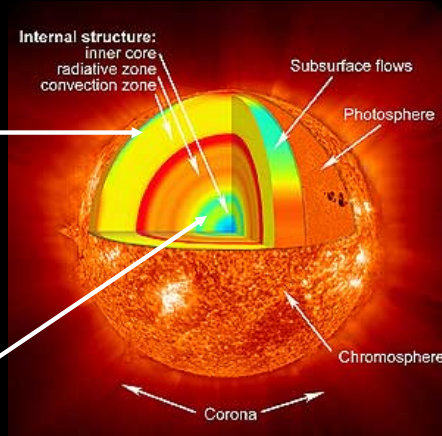
Mass: 5.9736×10^{24} KG

One hundred and nine Earths would be required to fit across the Sun's disk, and its interior could hold over 1.3 million Earths.



The Sun's outer visible layer is called the **photosphere** and has a temperature of $6,000^\circ\text{C}$

Solar energy is created deep within the core of the Sun. It is here that the temperature $15,000,000^\circ\text{C}$



The **corona** is several million degrees

Solar System 4.6 billion years old



It takes about 8 minutes for the light from the Sun to get to Earth.

Attachments

Uranus student response(4).avi

student response no tilt.avi