



# FAR OUT FACTS ABOUT LIGHT

The Sun is using losing 4 billion kilograms of mass a second; as four hydrogen nuclei are converted to a single helium one, this loss in mass provides the energy for the Sun to shine.

Light moves at a speed of 299,792 km/sec (186,282 miles per second) A beam of light could travel around the Earth more than 7 times in one second.

The Earth is 147 million to 152 million kilometers away from the sun.

Depending on how you study it, light can travel as particles (photons) or waves.

The light and colors we can see with our eyes are only a tiny part of the electro-magnetic (EM) spectrum.

Radio waves, X-rays, UV rays and Gamma rays are also all part of the EM spectrum.

Different colors of light carry different amounts of energy, and are slightly different wavelengths.

White objects reflect all visible light (because white is in fact all colors).

Black objects absorb all visible light (because black is the absence of color).

What you see as “green” is actually all the colors being absorbed except green, and green is being reflected back. Does that mean green is actually everything but green?

Humans cannot see ultra-violet light (light beyond the purple spectrum) but spiders and bees can!

Explore More Here:

[ht <http://science.hq.nasa.gov/kids/imagers/ems/visible.html>](http://science.hq.nasa.gov/kids/imagers/ems/visible.html)

[tp://www.windows2universe.org/sun/spectrum/multispectral\\_sun\\_overview.html](tp://www.windows2universe.org/sun/spectrum/multispectral_sun_overview.html)