

SUN FACTS

AVERAGE DISTANCE FROM EARTH: 93 MILLION MILES (150 MILLION KILOMETERS)

RADIUS: 418,000 MILES (696,000 KILOMETERS)

MASS: 1.99×10^{30} KILOGRAMS (330,000 EARTH MASSES)

MAKEUP (BY MASS): 74 PERCENT HYDROGEN, 25 PERCENT HELIUM, 1 PERCENT OTHER ELEMENTS

AVERAGE TEMPERATURE: 5,800 DEGREES KELVIN (SURFACE), 15.5 MILLION DEGREES KELVIN (CORE)

AVERAGE DENSITY: 1.41 GRAMS PER CM³

VOLUME: 1.4×10^{27} CUBIC METERS

ROTATIONAL PERIOD: 25 DAYS (CENTER) TO 35 DAYS (POLES)

DISTANCE FROM CENTER OF MILKY WAY: 25,000 LIGHT YEARS

ORBITAL SPEED/PERIOD: 138 MILES PER SECOND / 220 MILLION YEARS

"SUNSHINE" REDIRECTS HERE. FOR OTHER USES, SEE SUNSHINE (DISAMBIGUATION).

FOR NATURAL LIGHTING OF INTERIOR SPACES BY ADMITTING SUNLIGHT, SEE DAYLIGHTING. FOR SOLAR ENERGY AVAILABLE FROM SUNLIGHT, SEE SOLAR IRRADIANCE. FOR OTHER USES, SEE SUNLIGHT (DISAMBIGUATION).

SUNLIGHT SHINING UPON TWO DIFFERENT SIDES OF THE U.S. STATE OF NEW JERSEY. SUNRISE ON THE TERSEY SHORE AT SPRING LAKE, MONMOUTH COUNTY (ABOVE), AND SUNSET ON THE SHORE AT SUNSET BEACH, CAPE MAY COUNTY (BELOW). BOTH ARE FILTERED THROUGH HIGH STRATUS CLOUDS.

SUNRISE OVER THE GULF OF MEXICO AND FLORIDA FROM APOLLO 7. SUNLIGHT IS A PORTION OF THE ELECTROMAGNETIC RADIATION GIVEN OFF BY THE SUN, IN PARTICULAR INFRARED, VISIBLE, AND ULTRAVIOLET LIGHT. ON EARTH, SUNLIGHT IS SCATTERED AND FILTERED THROUGH EARTH'S ATMOSPHERE, AND IS OBVIOUS AS DAYLIGHT WHEN THE SUN IS ABOVE THE HORIZON. WHEN DIRECT SOLAR RADIATION IS NOT BLOCKED BY CLOUDS, IT IS EXPERIENCED AS SUNSHINE, A COMBINATION OF BRIGHT LIGHT AND RADIANT HEAT. WHEN BLOCKED BY CLOUDS OR REFLECTED OFF OTHER OBJECTS, SUNLIGHT IS DIFFUSED. SOURCES INDICATE AN "AVERAGE OVER THE ENTIRE EARTH" OF "164 WATTS PER SQUARE METER OVER A 24-HOUR DAY".¹¹⁴

THE ULTRAVIOLET RADIATION IN SUNLIGHT HAS BOTH POSITIVE AND NEGATIVE HEALTH EFFECTS, AS IT IS BOTH A REQUISITE FOR VITAMIN D₃ SYNTHESIS AND A MUTAGEN.

SUNLIGHT TAKES ABOUT 8.3 MINUTES TO REACH EARTH FROM THE SURFACE OF THE SUN.¹²⁴ A PHOTON STARTING AT THE CENTER OF THE SUN AND CHANGING DIRECTION EVERY TIME IT ENCOUNTERS A CHARGED PARTICLE WOULD TAKE BETWEEN 10,000 AND 170,000 YEARS TO GET TO THE SURFACE.¹²⁴

SUNLIGHT IS A KEY FACTOR IN PHOTOSYNTHESIS, THE PROCESS USED BY PLANTS AND OTHER AUTOTROPHIC ORGANISMS TO CONVERT LIGHT ENERGY, NORMALLY FROM THE SUN, INTO CHEMICAL ENERGY THAT CAN BE USED TO SYNTHESIZE CARBOHYDRATES AND TO FUEL THE ORGANISMS' ACTIVITIES.

1 CORINTHIANS 11:1

"BE YE FOLLOWERS OF ME, EVEN AS I ALSO AM OF CHRIST".

PROVE ALL THINGS

STUDY TO SHEW THYSELF APPROVED UNTO AHAYAH

ALL PRAISES TO THE MOST HIGH GOD

AHAYAH ASHAR AHAYAH BAHASHEM YASHAYAH

FRANK CHAVEZ

TRIBE OF ISSACHAR

12 TRIBES 1 NATION FOR ALL

ACTS 17:26

**"AND HATH MADE OF ONE BLOOD ALL NATIONS OF MEN FOR TO
DWELL ON ALL THE FACE OF THE EARTH, AND HATH DETERMINED
THE TIMES BEFORE APPOINTED, AND THE BOUNDS OF THEIR
HABITATION"**

FOR THE KINGDOM OF HEAVEN IS AT HAND