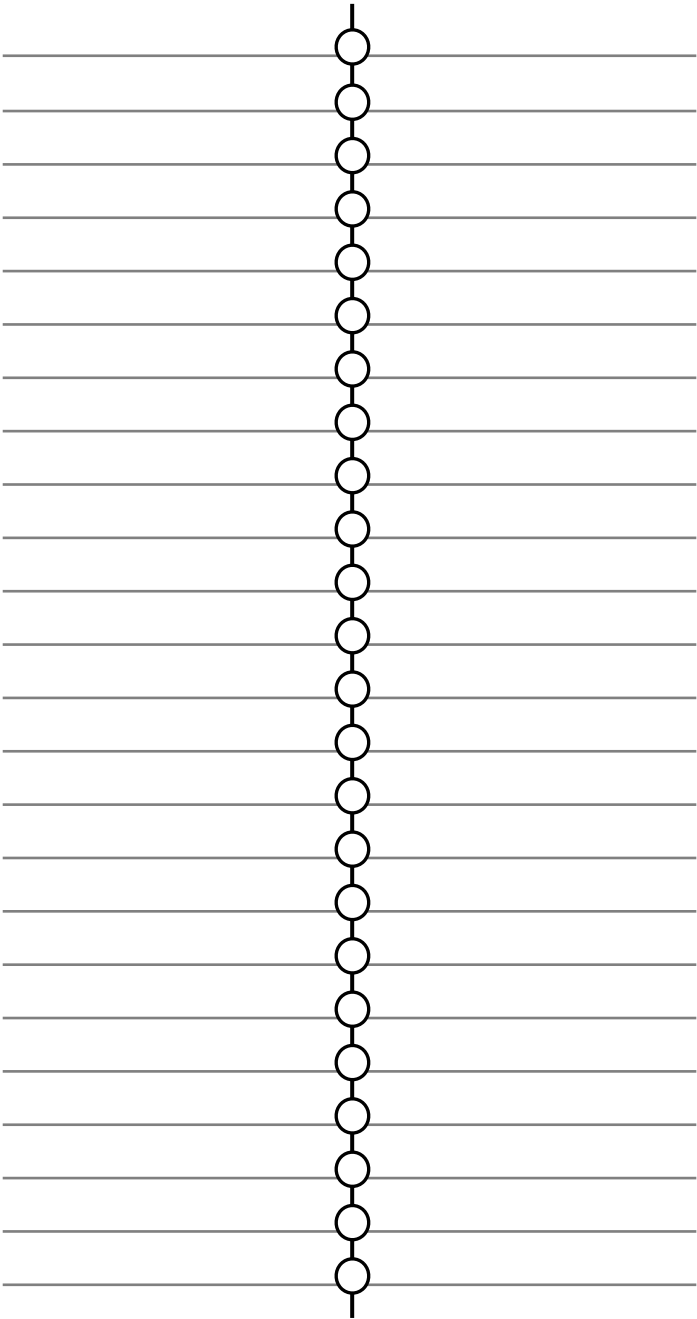


# NIGHT AND DAY



# THE SUN


- It takes approximately 8 minutes for light to travel from the Sun to the Earth.
- The Sun's core can reach 15 million degrees Celsius.
- The interaction between solar wind and the Earth's magnetic field create the *auroras*.
- The first glass window panes are thought to have been produced by the Romans around the 1st century AD.
- The *subsolar point* is the point on Earth at which the Sun appears directly overhead, and objects seem to cast no shadow. The subsolar points travel between the Tropic of Capricorn and the Tropic of Cancer.
- Many cultures have a dawn deity in addition to a solar deity.
- Over a million Earths could fit inside the Sun.
- A *green flash* sometimes occurs at the moment before sunset or after sunrise, caused by the bending and scattering of sunlight.
- Clytie was a nymph in Greek mythology who, because of her unrequited love for the sun god, Helios, was turned into a sunflower, which was believed to follow the course of the sun.
- The *polar day* or *midnight sun* occurs during the summer in the Arctic and Antarctic Circles, when the sun is still up at midnight.
- The *polar night* is the time when the sun doesn't rise above the horizon at Earth's polar regions. Although it lasts for 6 months, only 11 weeks are spent in total darkness, the rest in twilight.
- Dawn is considered a sacred time by many religions and often dedicated to prayer and meditation.
- The Sun rotates around its own axis every 25.38 Earth days.
- An *aubade* is a poem or song about lovers who must part at daybreak.
- A *heliograph* is a device that uses a mirror to flash reflected, telegraphic messages, usually in Morse code.
- The Sun accounts for 99.9% of the mass of the solar system.
- A *solar eclipse* occurs when the moon passes between the Sun and the Earth.
- Eclipses occur in pairs, usually with 2 weeks between a lunar and solar eclipse.
- The Sun is the 19th card of the Major Arcana of the Tarot. It is often thought to signify vitality, optimism, and playfulness.
- Your weight on the Sun would be 28 times that on Earth.
- The widely-used *Gregorian Calendar* is a *solar calendar* based on a solar year of 365 days.

- A *sun dog* or *parhelion* is a phenomenon caused by the refraction of sunlight that creates the illusion of bright spots to the left and right of the sun.
- *Crepuscular rays* are sunbeams or sun rays that appear to radiate from the sun.
- There are two *solstices* a year, one around 21 June, and one around 21 December. The solstices mark the longest or shortest day of the year (except at the equator). They are also the point in time when the sun's declination reaches its highest or lowest limit and appears to stand still before changing direction, leading to the Latin etymology: "sol" meaning, "sun", and "sistere" meaning, "to stand still".
- Sir John Herschel coined the word, "photography" in 1839. He also invented the "actinometer" which measures the heat of direct sunlight.

## ☀ SUN WORDS ☀

- Acronycal:** occurring at sunset.
- Auroral:** pertaining to sunrise.
- Fulgid:** shining, glittering, briefly flashing light.
- Heliotropic:** plants that turn towards the sun.
- Lucific:** light-producing.
- Lucifugous:** light-avoiding; nocturnal.
- Soliform:** like the sun; sun-shaped.
- Solisequious:** following the course of the sun.
- Sun glitter:** sparkling light on water.

# NIGHT AND DAY



A vertical chain of 20 small circles connected by a line, positioned in the center of the page between the 'NIGHT AND DAY' and 'REFLECTION' sections. The circles are arranged in a straight vertical line, with a small vertical line extending from the top and bottom of the chain.

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