



# WHAT IF THE SUN DISAPPEARS?

## Did you know?

The Sun is slowly and gradually shrinking and getting brighter with each passing time.

- A little more than 5 billion years from now, the Sun is estimated to shrink to the size of the Earth.
- It will then turn into a dwarf star but weigh about 20,000 times more than the Earth.
- The temperature of the Earth would drop to 150 Kelvin within two months of the Sun's shut-off, making the coldness unbearable for humans.
- Since the light from the Sun takes eight minutes to reach the Earth, the Sun's disappearance would be noticeable eight minutes later.
- If the Sun were to explode, its dying light would destroy everything, including the asteroid belt.
- Without the Sun's light, photosynthesis would stop, eventually leading to the death of plants, animals, and thus humans.

## References:

① All about the sun.

<https://spaceplace.nasa.gov/all-about-the-sun/en/>

② How long could life on earth survive if the sun stopped shining?

<http://curious.astro.cornell.edu/about-us/39-our-solar-system/the-earth/other-catastrophes/61-how-long-could-life-on-earth-survive-if-the-sun-stopped-shining-beginner>