

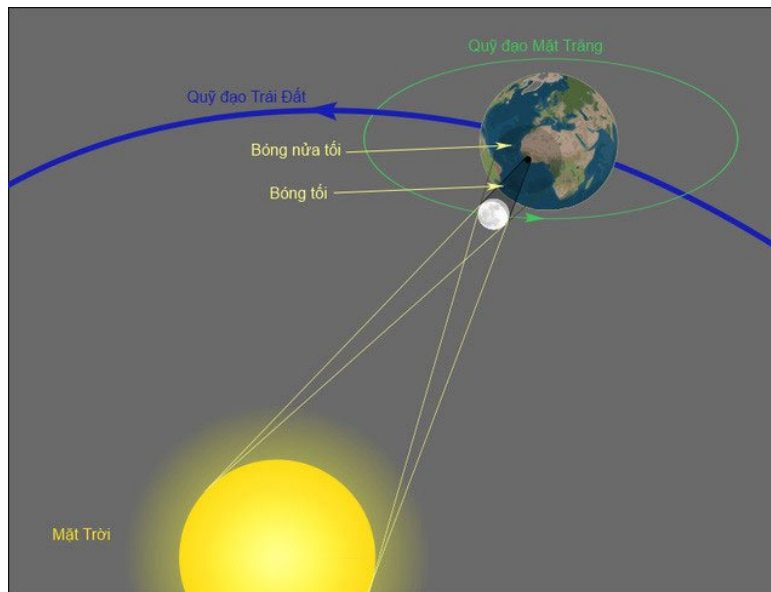
# What is a solar eclipse? When does a solar eclipse take place?

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## What is a solar eclipse?

An eclipse usually occurs when the Moon partially or completely obscures the Sun. This happens when the Sun, Moon, and Earth are in a straight line or near the same time the Moon passes between the Sun and Earth.



3D illustration of eclipse phenomenon.

## Classification of eclipse

Based on the moon's shadow areas on the surface of the Earth, people are divided into four types of eclipse

### Total eclipse

This happens when the Moon is near the orbit, completely blocking the Sun, when dark and semi-dark areas will form on the surface of the Earth. To be able to observe the total eclipse, the viewer must stand on the path of the moon's shadow. People standing in the dark shadow only observed partial eclipse.

## **Partial eclipse**

This happens when the Moon only partially obscures the Sun's disk and forms a semi-dark shadow on the surface of the Earth.

## **Annular eclipse**

This interesting astronomical phenomenon occurred when the Moon's disk obscured the center of the Sun's disc, only the outer edges of the Sun were exposed. At this point, we will see that the outer edge of the Sun is shaped like a ring. Only when the Moon is around the orbit of the orbital can an annular eclipse occur.

## **Solar eclipse**

Hybrid eclipses occur when the annular eclipse phenomenon becomes a total solar eclipse. This phenomenon is very rare.



Solar eclipse.

1. Detecting UGC 2885, the giant spiral galaxy, 2.5 times larger than the Milky Way galaxy

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