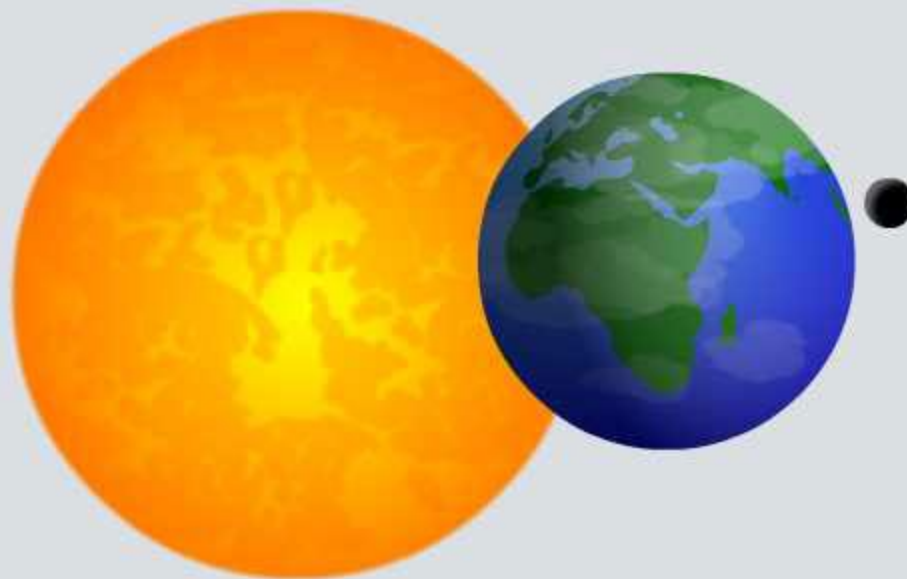


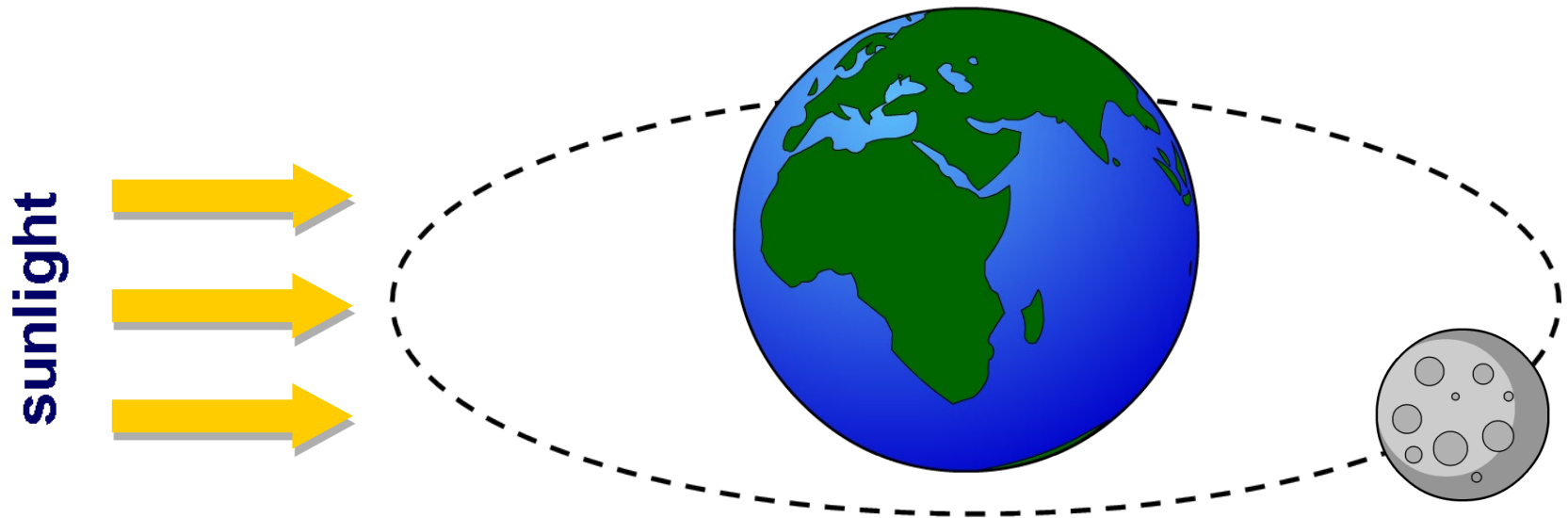
# The Earth, Moon and Sun



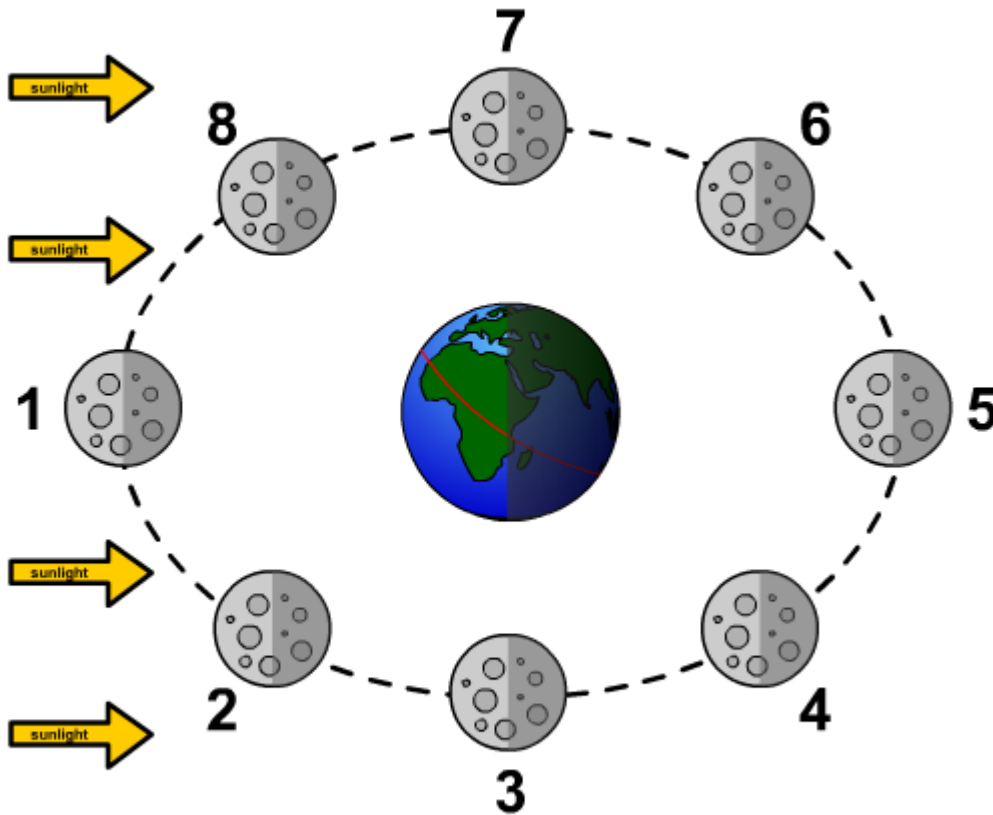
The Sun and the Moon look about the same size from Earth, but they are not.

The Sun is about 400 times wider than the Moon but is 400 times further away!

The Moon takes just over 27 days to orbit the Earth.



## The phases of the Moon



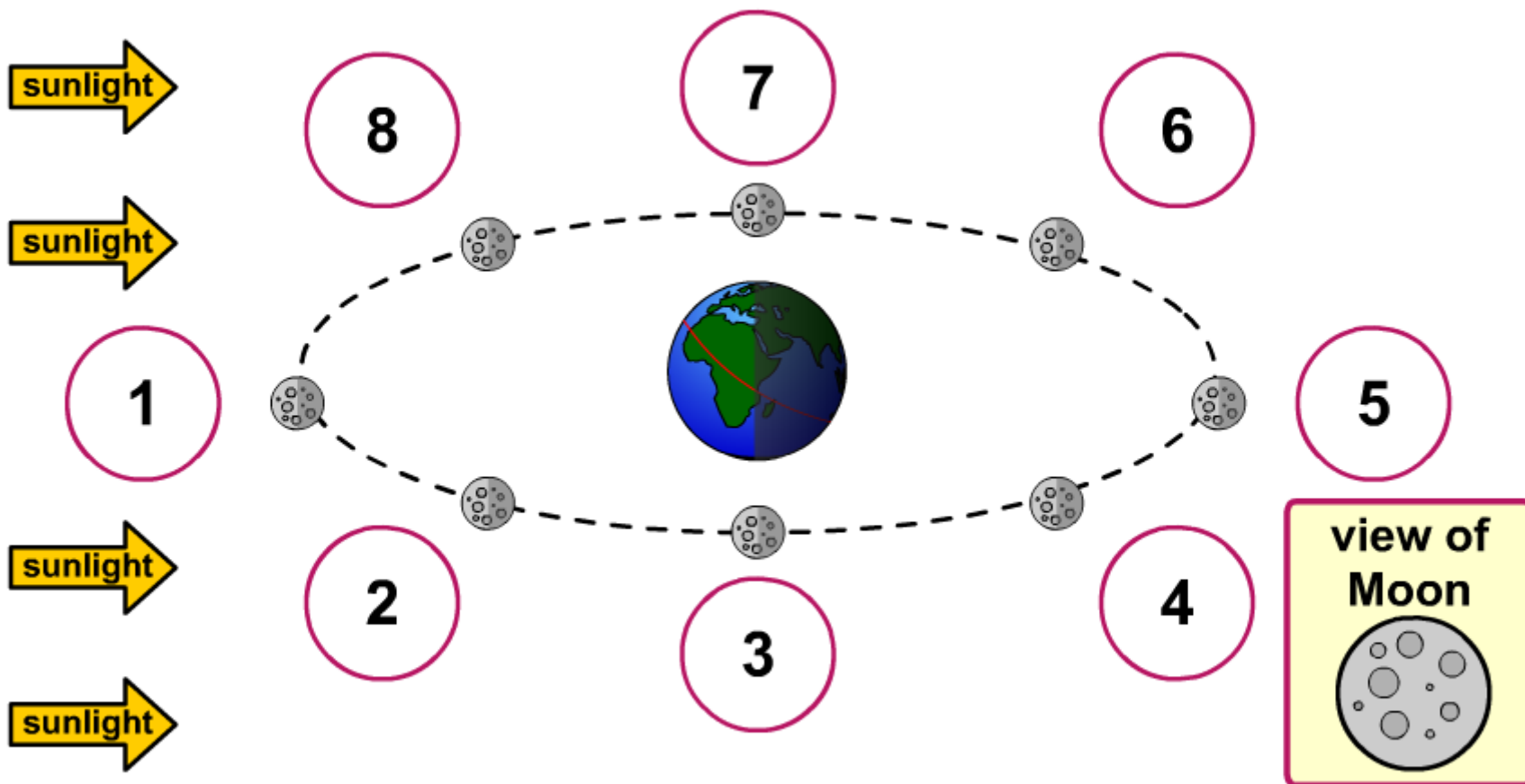
The view of the Moon from Earth changes depending on its position around the Earth. These different views are called the phases of the Moon.

Click on each position of the Moon in space to see the corresponding view of the Moon from Earth.



# Phases of the Moon activity

What does the Moon look like from Earth in each position?



solve



## Complete these sentences about the Moon

1. The Moon does not produce its own light – it reflects the \_\_\_\_\_ light.
2. The Moon takes around \_\_\_\_\_ days to orbit the Earth.
3. A new Moon is when \_\_\_\_\_ of the Sun's light is reflected off the Moon towards us.



Earth

27

31

Gravity

Sun's

none

water

atmosphere



hide

solve

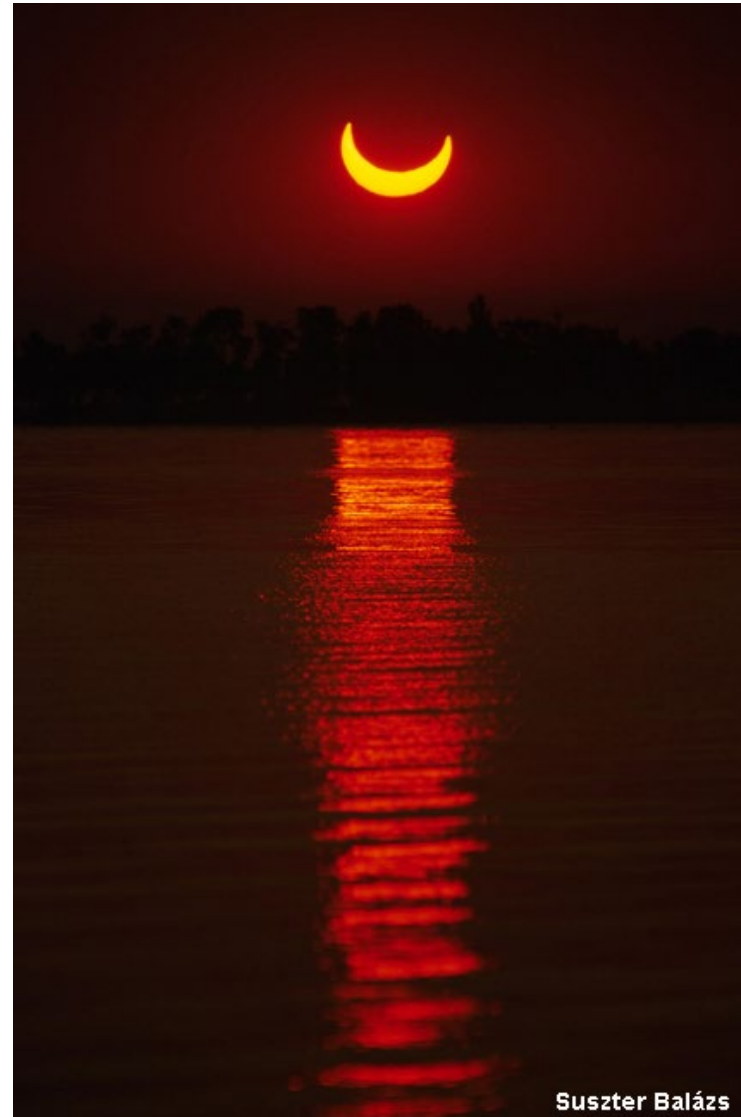


A **solar eclipse** happens when the Moon passes between the Sun and the Earth, casting a shadow over the Earth.

The last total solar eclipse visible from the U.S. was in 1991. The next is not until 2017!

A **lunar eclipse** happens when the Earth passes between the Sun and the Moon, casting a shadow over the Moon.

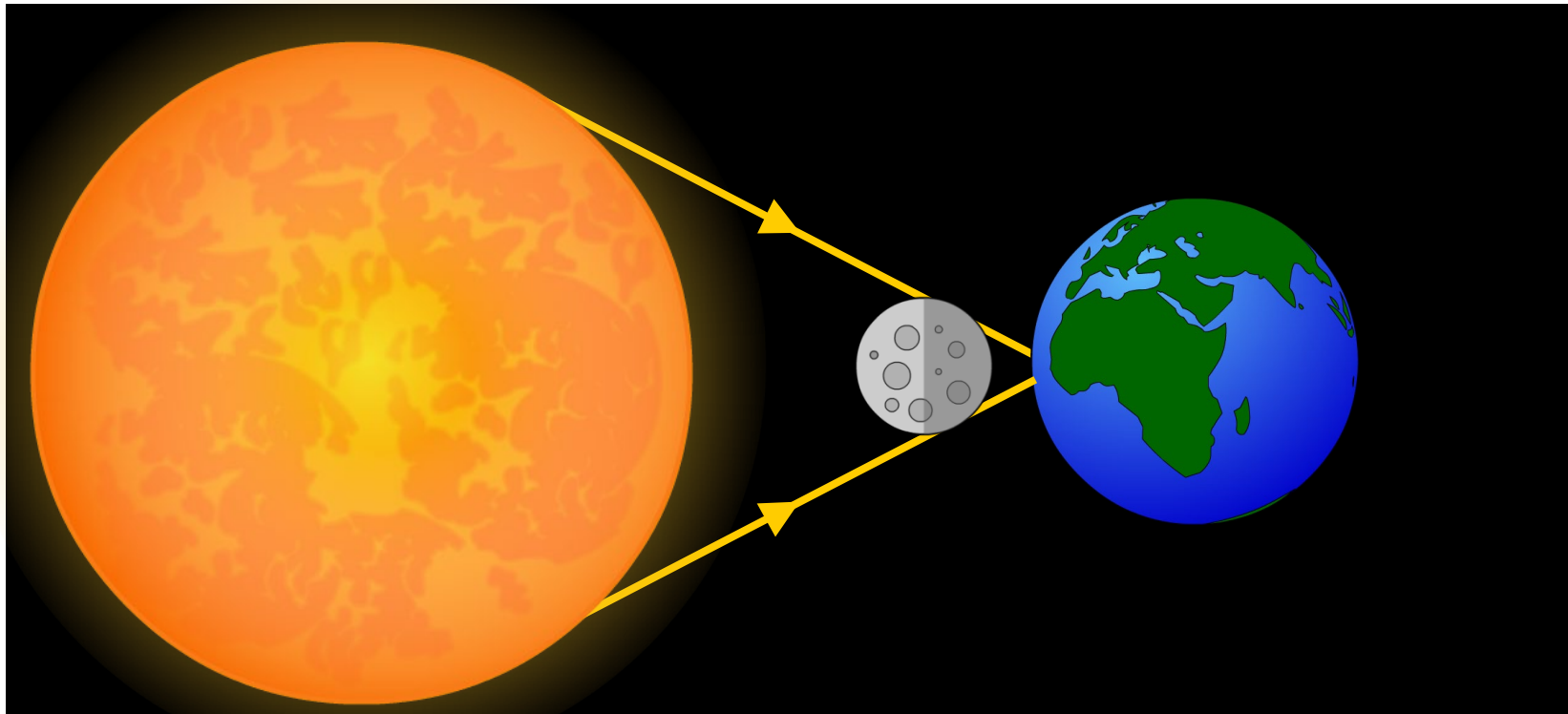
Lunar eclipses happen in most years.



# What happens during a solar eclipse?

Where must the Moon be for a solar eclipse to take place?

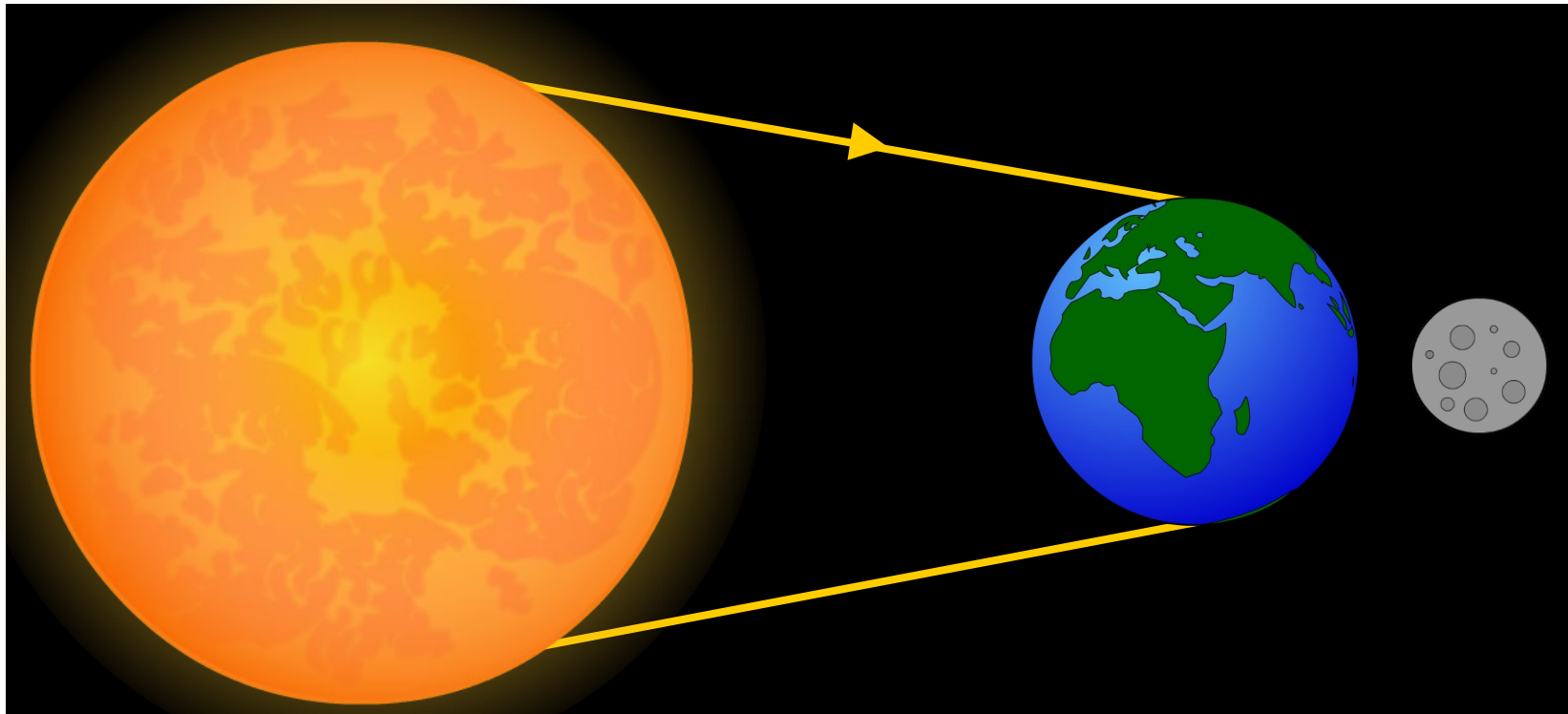
During a solar eclipse the Moon moves directly between the Sun and the Earth, blocking the Sun's rays from reaching part of the Earth.



# What happens during a lunar eclipse?

Where must the Moon be for a lunar eclipse to take place?

During a lunar eclipse the Moon is on the opposite side of the Earth from the Sun, blocking the Sun's light from reaching the Moon.





## What are the missing words about eclipses?

1. Eclipses last  .
2. A solar eclipse occurs when the   comes between the   and the Earth.
3. A lunar eclipse occurs when the   comes between the   and the Moon.
4. During an eclipse, the Sun and Moon appear to be about the same size because the Sun is   times further away from us than the  , and



solve

