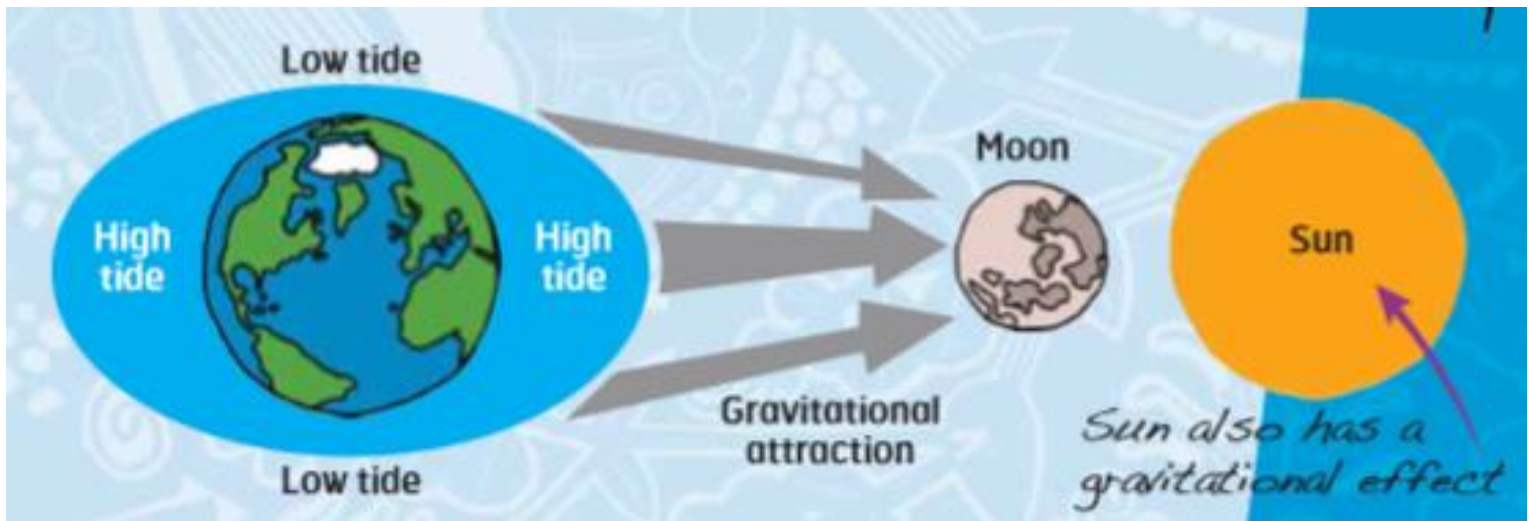




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# Do you know?

## What causes the tides and the bulge effect



The moon orbits the earth.

The gravitational force of the moon and sun, pulls on the earth's oceans and seas that are nearest to them.

This creates an outward bulge pointing towards the moon. There is a similar bulge on the opposite side because of the earth's spin.

Result - high tides.

The bulges take water away from other areas

Result - low tides.

As the earth spins these areas of high and low tide move around the globe.

### Gravity

Tides are caused by the pull of gravity from the earth, between the earth and the moon and between the earth and the Sun.

This force has a small effect on the land but a big effect on the oceans and seas of the world.

The time between high and low tides is usually about 6 hours. Result - two high and two low tides each day.

