



Divina Infantita
(Almería)

Apuntes Unit 1. Social Science THE UNIVERSE.

UDI 2

AROUND THE SOLAR SYSTEM

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CELESTIAL BODIES
The objects which I can see
in the sky

PLANETARY SYSTEM
The Sun and its 8 planets
are called Solar System

**Luminous
bodies**

**Non-
Luminous
bodies**

1. Mercury
2. Venus
3. Earth
4. Mars
5. Jupiter
6. Saturns
7. Uranus
8. Neptune

•Stars → Sun

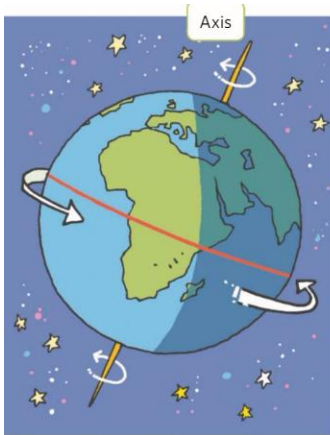
•Planets → Earth

EARTH SPINS

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Earth's rotation

- Earth spins on its axis, this movement is called **rotation**



Day and night

- Earth takes 24 hours to completely spin around its axis
- Day**: the Sun's rays reach the planet
- Night**: the Sun's rays don't reach the planet

EARTH ORBITS

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Earth's revolution

- It is the earth's movement around the Sun.
- It takes 365 days to orbit all the way around the sun
- In other words, it takes one year to be completed.



The Seasons

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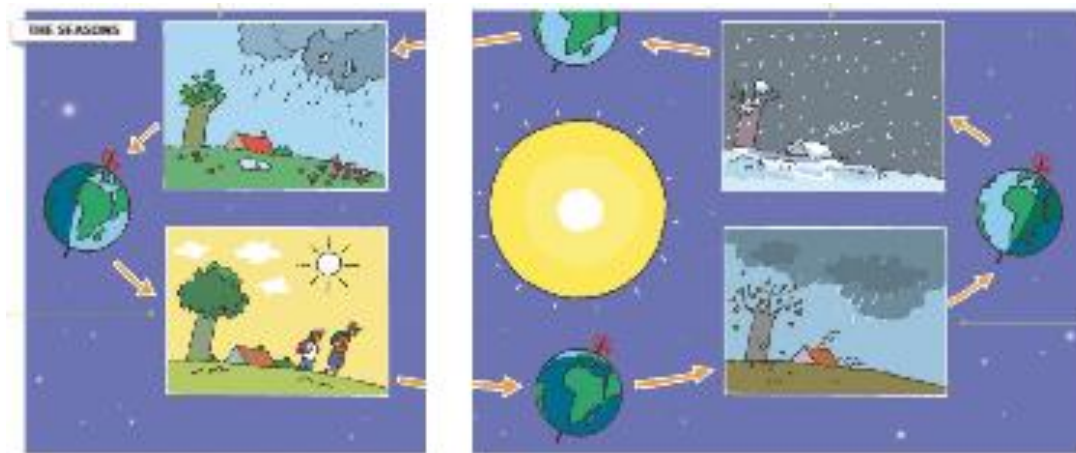
This movement around the Sun produces **the seasons**: spring, summer, autumn and winter.

•**Spring**: It is warmer and the days get longer

•**Summer**: it is very hot

•**Winter**: it is colder and the days are short

•**Autumn**: it starts to get colder



THE MOON

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- The **moon** is Earth´s satellite.
- The moon is a non luminous body. Only bright because the Sun is shining on it.
- A **sattellite** is a spherical celestial body that orbits around a planet.

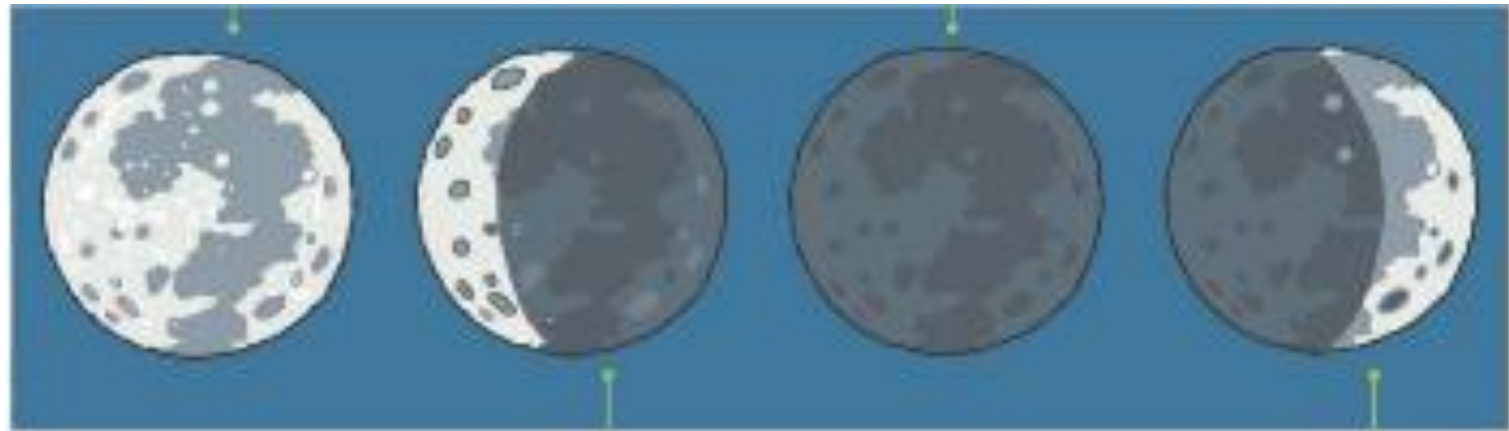


The phases of the moon

Depending on the Moon's position we can see all of it or none of it. These are called the phases of the Moon.

Full Moon

New Moon



Waning Moon

Waxing Moon

WE ARE PART OF THE UNIVERSE

Most astronomers believe the universe began in the Big Bang which was a big explosion.

The universe

- Is made up of all the celestial bodies that exist: planets, satellites, asteroids, stars,...

Our galaxy: the Milky Way

- A galaxy is a group of stars and planetary systems.
- Our galaxy is called The Milky way



How scientific study the universe

To see celestial bodies in more detail, astronomer use



- SPACE TELESCOPE
- LAND TELESCOPE