# **ACTIVITY 1.** The origin of the Universe.

- a. The name of the most accepted theory of the origin of the Universe is (choose the correct one):
  - a. The Wing Van Theory
  - b. The Origin of the Universe Theory
  - c. The Big Bang Theory
- b. Put the following sentences in the right order:
  - 1. At first, the temperature of the universe was very high.
  - 2. The name of that explosion is Big Bang and it is called time zero
  - 3. EVERYTHING was concentrated in a little point that exploded 13,700,000,000 years ago.
  - 4. Gradually it cooled down, which made it possible for stars and planets to form.

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**ACTIVITY 2.** Which ones are components of the solar system? Circle them.

The Sun Jupiter The Big Bang The Earth The Moon

Mars A galaxy The Milky Way The Kuiper belt Rocky planets

#### **ACTIVITY 3.** About planets.

a. Match.

Rocky planet - - Nuclear reactions take place in its interior.

Satellite - - It has a lot of satellites.

The Sun - - The core is metallic.

Jupiter - - It orbits a planet.

b. Answer about giant planets:

What are their names? (from the one closest to the Sun to the furthest

- Which substances are they made of?
- · Which state is their core in?

· Where are they located?

c. True or false? Justify your answer. "The Earth is the closest planet to the Sun."

**ACTIVITY 4.** Enumerate the characteristics that make life possible on our planet.

# **ACTIVITY 5.** About the Earth.

a. Which movement is it: rotation or revolution?

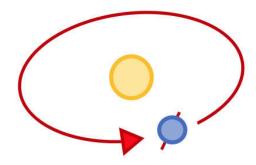
The cycle of the day and the night is the consequence.

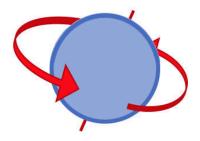
The cycle of seasons is a consequence of that movement and the tilt of the axis of rotation.

The distance between the Earth and the Sun is almost the same.

The length of the day and the night varies.

b. Movement which each picture represents:





MOVEMENT:

MOVEMENT:

### **ACTIVITY 6.** About the Moon.

- a. How long does the Moon take to complete one rotation? And one revolution?
- b. Identify which phase of the Moon is each picture or sentence according to:









- The Sun illuminates the side of the Moon we don't see.
- We see the left half of the Moon illuminated.
- · We see the right half of the Moon illuminated.
- The Sun illuminates the side of the Moon we see.

# **ACTIVITY 7.** About eclipses.

a. Match:

It occurs when the Moon passes through the shadow produced by the Earth.-

-ECLIPSE

It takes place when one celestial body totally or partially obscures another.-

-SOLAR ECLIPSE

It occurs when the Moon passes directly between the Earth and the Sun.-

-LUNAR ECLIPSE

b. Draw a lunar eclipse (identify each body):

