



6º ENCUENTRO DE CENTROS INNOVADORES EN ALICANTE  
11ª en la COMUNIDAD VALENCIANA  
Centros por la mejora de la calidad y la eficacia formativa y el desarrollo personal



## ARLOON SOLAR SYSTEM

<b>Earth</b>	
How old is our planet?	[4.5 billion years old]
Which is the thinnest layer of the Earth?	[The Crust]
What is the Earth's core made of?	[Nickel and Iron]
What would the temperature be if we dug 10 km towards the Earth's core?	[200°C]
Where can you see the phenomenon called "Midnight sun"?	[North of the Arctic Circle and south of the Antarctic Circle]
What are the equinoxes?	[The days of the year when day and night are of equal length]
When does the autumn equinox take place in the Northern Hemisphere?	[September 23rd]
When does the winter solstice take place in the Southern Hemisphere?	[June 21st]
What is the origin of seasons? The distance from the Sun or the direction of the Sun's rays?	[The direction of the Sun's rays]
Why do we need to add one day to February every four years?	[Because the Earth takes 365 days, 5 hours and 57 minutes to orbit the sun]

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<b>Moon</b>	
What is the Giant Impact theory?	[It's the theory according to which the Moon was formed when a planet crashed into the Earth]
How many astronauts have been on the moon so far?	[12]
How is the Moon orbit movement? Clockwise or counterclockwise?	[Counterclockwise]
Name the four lunar phases	[New moon, First Quarter Moon, Full Moon, Last Quarter Moon]
Which is the Moon temperature on the side away from the Sun?	[-180°C]
What are the tides caused by?	[The Moon's force of attraction on the water]
Tides always happen at the same time. True or false?	[False]
Some fish come to lay their eggs on the sand because they know the cycle of tides. True or False?	[True]
When does a <u>solar</u> eclipse occur?	[When the Moon passes between the Sun and the Earth and the Moon is in the New Moon phase]
What colour is the Moon during total lunar eclipses?	[Red, reddish]

<b>Satellites</b>	
How many natural satellites are there in the Solar System?	[170]
How many moons does Mars have?	[2]
Asteroids are larger than meteoroids. True or false?	[True]
What are the asteroids craters formed by?	[Collisions with other asteroids]
Which are the main uses of artificial satellites?	[Communications, space research, weather information]
How do artificial satellites generate their energy?	[Solar panels]
Which is the difference between meteoroids and meteorites?	[A meteorite is a meteoroid that passes through the Earth atmosphere]
Where is the asteroid belt located?	[Between Mars and Jupiter]
Comets are made of ice and rocks. True or false?	[False. Ice and dust]
When are comets visible?	[When they approach the Sun]

Planets	
What is the average temperature on Neptune?	[-214°C]
All the other planets of the Solar System could fit inside Jupiter. True or false?	[True]
Which is the farthest planet from the Sun? And the closest one?	[Neptune] [Mercury]
How much does winter last at Uranus poles?	[21 years]
Venus has 3 moons. True or False?	[False]
Uranus is larger than Saturn. True or False?	[False]
Neptune is smaller than Uranus. True or False?	[True]
Venus is larger than the Earth. True or false?	[False]
Which is the chemical compound that makes Mars known as “The red planet”?	[Iron oxide]
15 planets the size of Mercury could fit inside the Earth	[False. 18]

<b>Sun</b>	
What is the surface temperature on the Sun?	[6.000°C]
If a man weighs 60 kg on Earth, he would weigh 600 kg on the Sun. True or False?	[False, 1.680 kg]
How many Earths would we need to place side by side to get the diameter of the Sun?	[109]
How much does winter last at Uranus poles?	[21 years]
The Sun loses 10 millions tons of matter every second	[False. 5 million tons]
Which planet orbits the Sun the slowest?	[Neptune]
Venus orbits the Sun faster than Saturn	[False]
Mercury only takes approximately 88 days to orbit the Sun. True or false?	[True]
If you were 40 years old on Mars, you would be 80 years old on Earth. True or False?	[True]
What is an exoplanet?	[It's a planet outside the Solar System]