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2018-1-FR01-KA229-047689

DEVELOPING AND IMPLEMENTING NEW STRATEGIES  
IN MATHS CONNECTED CURRICULAR SUBJECTS



## MATHS PLAN

**COUNTRY:** Italy

**SCHOOL:** Istituto Comprensivo "N. D'Apolito"

**ACTIVITY NAME:** Maths and Science

"Our solar System"

**MATERIALS:** wooden board, iron wire, polystyrene balls of different sizes, screws, cardboard, glue, scissors, tempera colors.

**ACTIVITY NUMBER 2**

**MAKING ACTIVITY:**

We make various model of Solar Sistem ...





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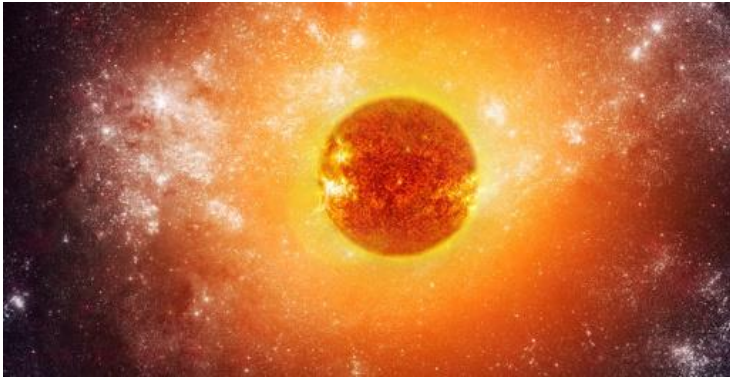
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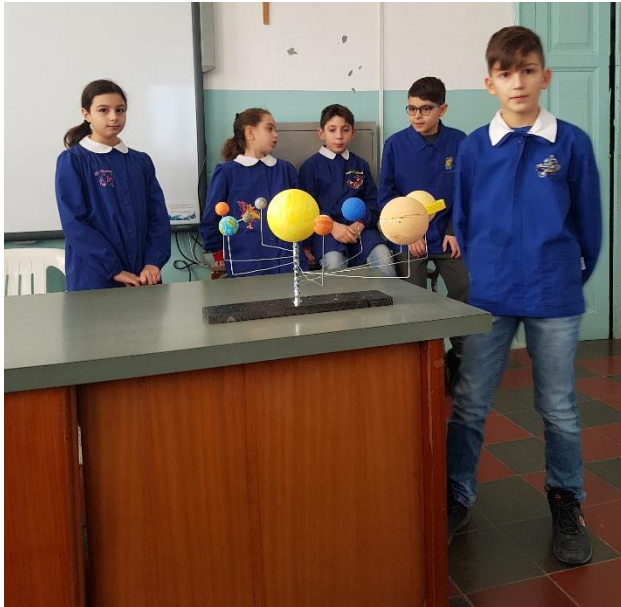
... keeping this information in mind: the size of the planets, the place they occupy around the sun, their main characteristics and how long a turn around themselves and around the Sun lasts.

Planets of Solar System are 8: Mercury, Venus, Earth, Mars, Iupiter, Saturn, Uranus and Neptune. The Sun is our star.





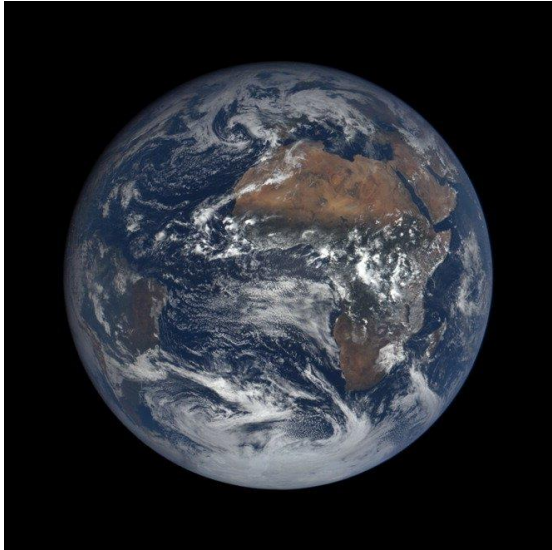
Our Sun contains 98.8% of the mass of the entire Solar System. It's a kind of rotating ball composed of gas, mainly hydrogen and helium ... Gigantic explosions occur in the solar corona, which have the power of over 500 million atomic bombs.



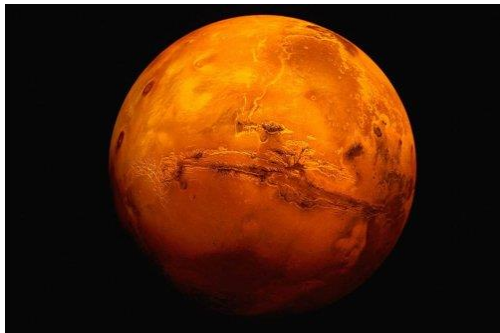
The closest planet to the sun is Mercury. In the illuminated part it reaches 350 degrees ...



Second planet from the sun. Its size is roughly like the Earth. Its temperature is over 450 degree.



The Earth is about the same size as Venus. It is mainly formed by water and its temperature varies from 50 degree below zero. The moon, Earth's only Satellite.



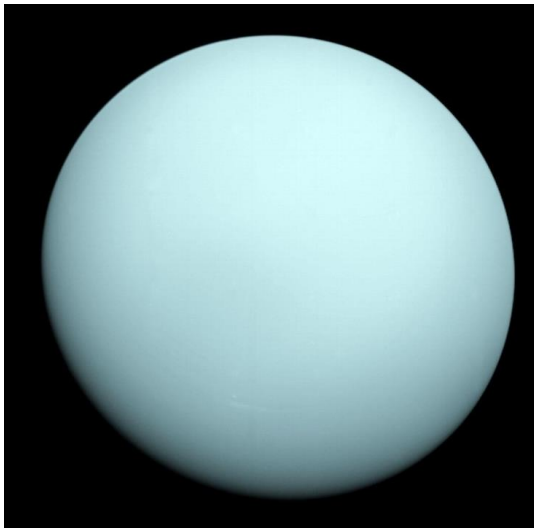
Mars is the 4th planet. It is much smaller than Earth and Venus. Mars is called the red planet because its atmosphere contains powders containing iron oxide.



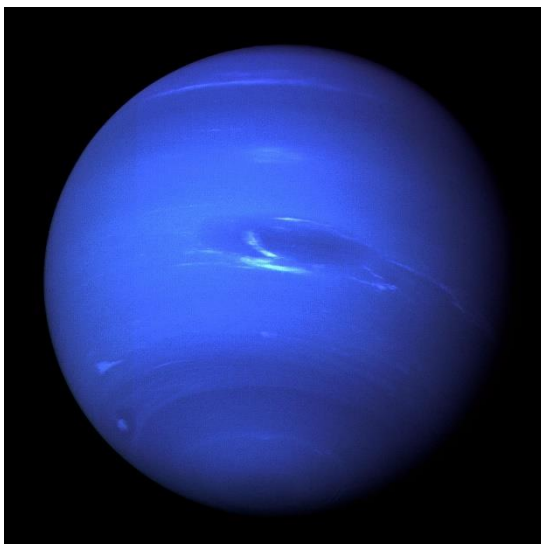
Planet Jupiter is the fifth planet. It's the largest planet in our solar system. It is a gaseous planet, consisting mainly of gas, with a small rocky core.



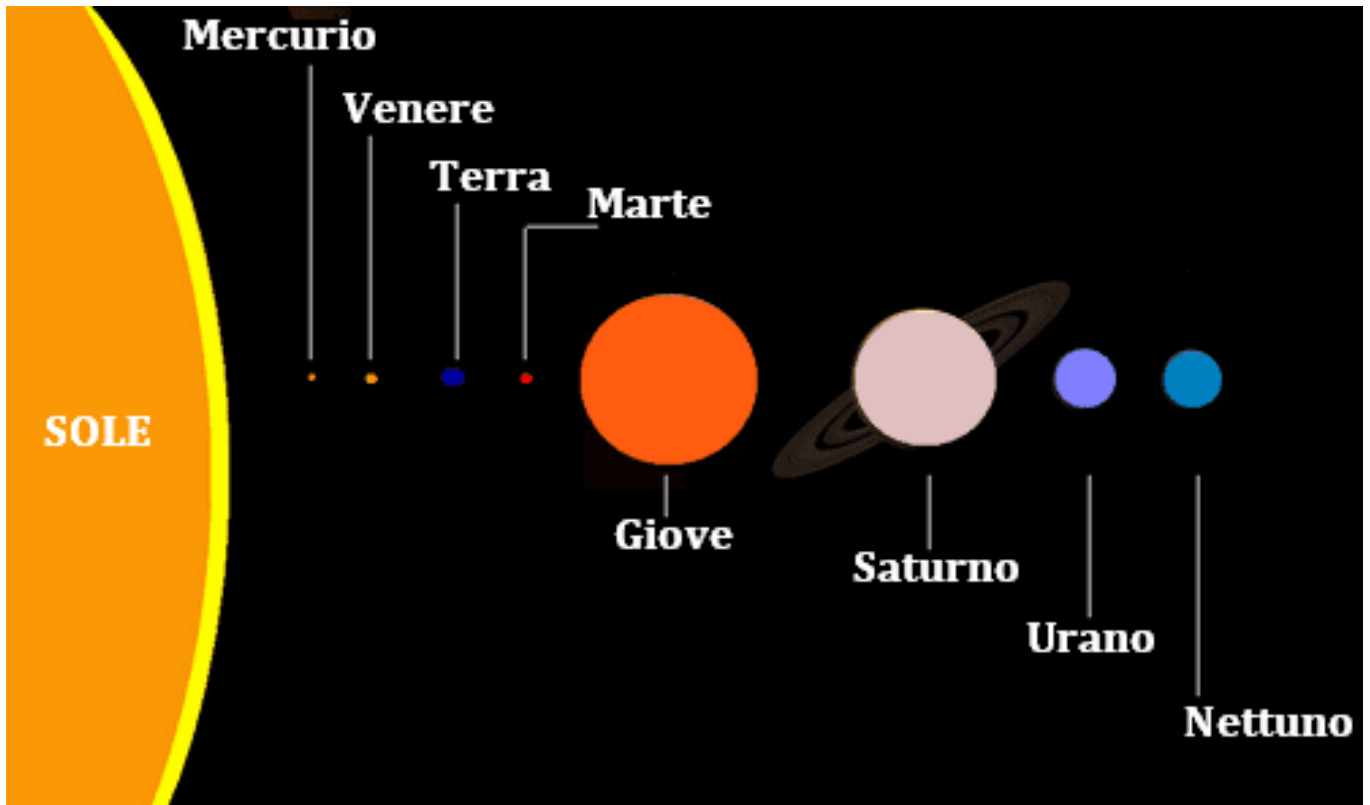
Saturn is the sixth planet in order of distance from the sun and belongs to the family of the gaseous giants. Saturn is surrounded by 7 rings of ice-covered dust and rock fragments.



Uranus, the frozen planet, is the eighth planet ... and the third largest planet in our Solar System.



Neptune is the eighth planet away from the Sun and the fourth largest planet.



Neptune is the farthes planet from the Sun.



Pluto was the ninth planet in our Solar System. In 2006 it was "demoted" to "dwarf planet" for reasons of size, so it is no longer part of the our Solar System.



### List of planets by size

	<b>planets</b>	<b>diameter</b>
1.	Jupiter	142. 984 Km
2.	Saturn	120.536 Km
3.	Uranus	51.118 Km
4.	Neptune	49.528 Km
5.	Earth	12.756 km
6.	Venus	12.104 Km
7.	Mars	6.780 Km
8.	Mercury	4.875 Km

### How long is a day on: (from the slowest to the fastest)

	<b>hours</b>	<b>days in Earth</b>
1. Venus	5.832	243
2. Mercury	1.406,4	58,6
3. Mars	24,62	
4. Earth	23,93	
5. Uranus	17,24	
6. Neptune	16,11	
7. Saturn	10,65	
8. Jupiter	9,93	

### How long is a full circle around the sun? (from the slowest to the fastest)

	<b>days in Earth</b>	<b>years in Earth</b>
1. Mercury	88	
2. Venus	224,7	
3. Earth	365,26	
4. Mars	687	
5. Jupiter		11,86