

Sun, Earth, Moon System

The Sun

The Sun is a star, which gives out heat and light. It is the center of our solar system. It is made up of gases and is very hot. It is the source of energy for all life on Earth.



The Earth's Moon

The Moon is a rocky body that orbits Earth. It is the only natural satellite of Earth. It is made up of rock and is very hot.



Phases of the Moon

The Moon orbits Earth in a circular path. As it orbits, it shows different phases. The phases are: New Moon, Waxing Crescent, First Quarter, Waxing Gibbous, Full Moon, Waning Gibbous, Last Quarter, and Waning Crescent.



When the portion of the Moon that we see is a half, it is called a First Quarter or Last Quarter. When the portion is greater than a half, it is called a Waxing Gibbous or Waning Gibbous.



Earth's Seasons

The Earth's axis is tilted. This tilt causes the seasons. As the Earth orbits the Sun, the tilt causes different parts of the Earth to receive different amounts of sunlight. This results in the seasons: Spring, Summer, Autumn, and Winter.

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Earth - Inside & Out

The Earth is made up of three main layers: the crust, the mantle, and the core.



Earth's surface has many shapes and features. A mountain is a landform that rises above the surrounding land. It is made up of rock and is very hot.



Changing Earth's Surface

- Weathering - physical & chemical
- Erosion
- Deposition
- Landforms
- Volcanoes
- Earthquakes



The Earth's surface changes constantly because of wind, water, temperature changes, and living things. Landforms change constantly due to weathering, which is the process of rocks breaking into smaller pieces. There are two types of weathering: physical and chemical.



The movement of land that has been weathered is called erosion. Erosion is caused by water, wind, gravity, and glaciers. Deposition is the laying down of pieces of Earth's surface. Over time, these landforms can be changed by erosion and deposition.

Some things that occur to nature, such as earthquakes, volcanoes, and changes to the Earth's surface.

An active volcano is a volcano that erupts often or shows signs of future eruptions. Volcanoes erupt when molten rock and ash are pushed out of the Earth's surface.

Earthquakes occur when the Earth's crust moves. This movement can cause the ground to shake and can result in damage to buildings and infrastructure.



Earthquakes also cause rapid changes to the Earth's surface. An earthquake is a sudden shift in the Earth's crust that causes the ground to shake and causes damage. They most often occur near faults, which are large breaks in the Earth's crust.



A tsunami is a wave that travels through the Earth's ocean along the result of an earthquake. It is a series of waves that can cause damage to coastal areas.

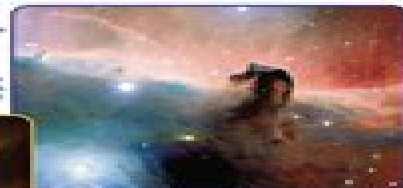


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Our Solar System

Formation of Our Solar System

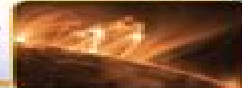
Solar systems begin in a cloud of gas and dust called a nebula. The cloud is composed of hydrogen, helium, and other gases. The cloud begins to collapse under its own gravity, forming a protostar.



Through a process called accretion, dust particles form larger bodies that eventually become planets. The process of accretion is the process of particles sticking together to form larger bodies.

The Sun

The Sun is a burning ball of gas. It is made up of hydrogen and helium. The Sun's energy is produced by nuclear fusion reactions.



The Inner Planets

The inner planets are Mercury, Venus, Earth, and Mars. They are called the inner planets because they are closest to the Sun. They are also called the terrestrial planets because they are made of rock.

Mercury is the smallest planet in our solar system. It is very hot and has no atmosphere. It is made of metal and is covered in craters.



Venus is the second planet from the Sun. It is very hot and has a thick atmosphere. It is covered in clouds and is made of rock.



Earth is the third planet from the Sun. It is the only planet known to have life. It is covered in water and is made of rock.



The Outer Planets

The outer planets are Jupiter, Saturn, Uranus, and Neptune. They are called the outer planets because they are far from the Sun. They are also called the gas giants because they are made of gas.

Jupiter is the largest planet in our solar system. It is made of gas and has a thick atmosphere. It is covered in clouds and has many moons.



Saturn is the second largest planet in our solar system. It is made of gas and has a thick atmosphere. It is covered in clouds and has many moons.



Uranus is the third largest planet in our solar system. It is made of gas and has a thick atmosphere. It is covered in clouds and has many moons.



Neptune is the fourth largest planet in our solar system. It is made of gas and has a thick atmosphere. It is covered in clouds and has many moons.

The gas giant farthest from the Sun is Neptune. It is the only planet in our solar system that is not visible to the naked eye.

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Set of 3
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Charts

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