

Study Notes

Planet Earth and Beyond

The Solar System

The Sun

- The Sun is a star. It is the center of the solar system, providing light and heat to the planets.
- The energy from the Sun comes from powerful nuclear reactions where hydrogen gas is converted into helium gas.



Objects around the Sun

- The solar system contains a variety of objects that orbit the Sun, including:
 - Eight planets (Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus, and Neptune) and their moons.
 - Many asteroids, found mostly in the asteroid belt between Mars and Jupiter.
 - Comets, which are icy bodies that come from the outer solar system.
 - Gas and dust clouds, known as the interstellar medium.

- Each planet and object in the solar system has unique features:
 - Size: Planets range from small (Mercury) to large (Jupiter).
 - Composition: Planets are made of different materials, such as gas, rock, and ice.
 - Atmosphere: Some planets have thick atmospheres, while others have thin or none.
 - Moons: Some planets have many moons, while others have none.
 - Temperature: Planets have different temperatures, from very hot (Mercury) to very cold (Neptune).
 - Distance from the Sun: Each planet is at a different distance from the Sun, which affects its temperature and the amount of light it receives.

Diagram

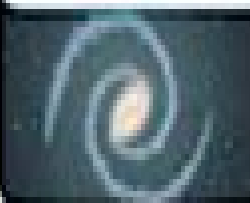
The diagram shows the Sun at the center, with the eight planets orbiting it in elliptical paths. The planets are labeled: Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus, and Neptune.



The Milky Way Galaxy

The Milky Way is a spiral galaxy, which means it has a central bulge and arms that spiral outwards. It is made up of billions of stars, gas, and dust. The Sun is one of the billions of stars in the Milky Way.

- The Milky Way is a spiral galaxy, which means it has a central bulge and arms that spiral outwards.
- It is made up of billions of stars, gas, and dust.
- The Sun is one of the billions of stars in the Milky Way.
- The Milky Way is about 100,000 light years across.
- It is located in the Local Group, a collection of galaxies.
- The nearest galaxy to the Milky Way is the Andromeda Galaxy, which is about 2.5 million light years away.



The diagram shows the Milky Way galaxy, which is a spiral galaxy. It is made up of billions of stars, gas, and dust. The Sun is one of the billions of stars in the Milky Way.

Light

Light is a form of energy that travels in waves. It is what we see when we look at objects. Light from the Sun travels through space to reach Earth.



Light Years, Light Hours, and Light Minutes

- Light years measure distance in terms of how long it takes light to travel a certain distance.
- One light year is the distance light travels in one year, which is about 9.5 trillion kilometers.
- Light hours measure distance in terms of how long it takes light to travel a certain distance.
- One light hour is the distance light travels in one hour, which is about 1.1 billion kilometers.
- Light minutes measure distance in terms of how long it takes light to travel a certain distance.
- One light minute is the distance light travels in one minute, which is about 18 million kilometers.

Telescopes

- Telescopes are instruments used to observe objects in the sky by collecting and focusing light.
- There are two main types of telescopes:
 - Refracting telescopes: These use lenses to focus light, which is then viewed through an eyepiece.
 - Reflecting telescopes: These use mirrors to focus light, which is then viewed through an eyepiece.
- Telescopes allow us to see objects in the sky that are too far away to see with the naked eye.
- The first telescopes were made of glass and wood, but modern telescopes are made of metal and plastic.



Wonders Of Science Student Edition The Earth And Beyond

Ted L. Miller, Earl Edwin Davis



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