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Space is the limitless expanse that exists outside the Earth's atmosphere and contains everything in the universe, from planets and stars to galaxies and dark matter. **It has several characteristics:**

1. **Vacuum:** It is considered a space that is almost free of matter, where the density is extremely low.
2. **Microgravity:** In some areas, gravity is weaker than it is on Earth, causing the phenomenon of weightlessness.
3. **Temperature:** Temperatures can vary greatly, from extremely cold to high heat in certain regions.

The Solar System

The solar system is the cosmic system that contains the sun and all the celestial bodies that orbit it due to its gravity. The solar system is characterized by the diversity of its bodies, which differ in size, characteristics, and composition.

Celestial bodies are any natural objects found in space, including planets, stars, moons, asteroids, and many more.





Climate Change

Climate change refers to the significant and ongoing transformations in global climate patterns, influenced by various factors, including human activity. Global warming is a primary result of climate change, as the average temperature of the Earth increases due to the accumulation of greenhouse gases in the atmosphere, such as carbon dioxide and methane.

Main Causes of Climate Change

1. **Industrial activity:** Emissions from burning fossil fuels.
2. **Deforestation:** Reduces the Earth's ability to absorb carbon dioxide.
3. **Agriculture:** Methane production from livestock and agricultural practices.
4. **Transportation:** Emissions from cars, airplanes, and ships.

Effects

1. **Rising temperatures:** Increased global average temperatures.
2. **Melting ice:** At the poles and rising sea levels.
3. **Impact on biodiversity:** Extinction of some species and changes in their habitats.
4. **Impact on agriculture:** Fluctuations in agricultural productivity.

Possible Solutions

1. **Renewable energy:** Transitioning to clean energy sources like solar and wind.
2. **Improving energy efficiency:** Reducing consumption and increasing efficiency.
3. **Forest protection:** Reforestation and conservation of natural areas.
4. **Awareness and education:** Enhancing understanding of the importance of reducing emissions.