The Solar System

The solar system consists of the Sun and all the objects that orbit around it. These objects include eight planets, as well as numerous moons, asteroids, comets, and other space rocks. The eight planets in the solar system, in order from the Sun outward, are Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus, and Neptune.

The Sun is at the center of the solar system, and all the planets orbit around it. The inner planets, Mercury, Venus, Earth, and Mars, are rocky and small compared to the outer planets. Jupiter, Saturn, Uranus, and Neptune are gas giants and much larger than the rocky planets.

Each planet in the solar system has its own unique features. For example, Earth is the only planet known to support life, and Mars has the tallest volcano and the largest canyon in the solar system. Jupiter, the largest planet, has a giant red spot that is actually a massive storm. Saturn is known for its beautiful rings made of rock and ice.

The solar system is an incredibly vast and fascinating place. It is believed to have formed approximately 4.6 billion years ago and continues to captivate astronomers and scientists with its mysteries and wonders. As our understanding of the solar system deepens, we continue to make new discoveries that broaden our knowledge of the universe.



Questions

Word Meaning

- 1. What does it mean for a planet to "orbit" around the Sun?
- 2. Explain in your own words what is meant by "gas giants."
- 3. What is unique about Earth in the context of the solar system?
- 4. Define the term "mysteries" as used in the text.
- 5. What is a synonym for "fascinating" as used in the last paragraph?

Inference

- 1. Why are the outer planets much larger than the inner planets?
- 2. Based on the text, why is the solar system described as "an incredibly vast and fascinating place"?
- 3. What can we infer about the formation of the solar system from the text?
- 4. Why do astronomers and scientists continue to be captivated by the solar system's mysteries and wonders?
- 5. In your opinion, why is Earth considered unique among the planets in the solar system?

Retrieval

- 1. What are the names of the inner planets in our solar system?
- 2. How many planets are there in the solar system, and can you name them in order from the Sun outward?
- 3. What are Saturn's rings made of?
- 4. According to the text, why is Jupiter known as the largest planet?
- 5. How long ago is it believed that the solar system was formed?

Summarising

- 1. Can you summarise the main composition of the solar system?
- 2. Summarise the unique features of the planets Earth, Mars, Jupiter, and Saturn.
- 3. In a few sentences, summarise why the solar system is described as vast and fascinating.
- 4. Provide a brief summary of why the solar system continues to captivate astronomers and scientists.

5. Summarise the significance of the solar system's formation and ongoing discoveries.

Answers

Word Meaning

- 1. Planets "orbit" around the Sun by moving in a curved path around it due to the gravitational pull of the Sun.
- 2. "Gas giants" are planets primarily composed of hydrogen and helium, with relatively low density and a thick atmosphere.
- 3. Earth is the only planet known to support life in the solar system.
- 4. "Mysteries" refer to unexplained or puzzling aspects of the solar system that intrigue astronomers and scientists.
- 5. A synonym for "fascinating" is "intriguing."

Inference

- 1. The outer planets are much larger than the inner planets because they are mainly composed of gases, while the inner planets are rocky and smaller.
- 2. The solar system is described as "an incredibly vast and fascinating place" because of its immense size, diverse celestial objects, and the ongoing discoveries and mysteries it presents to astronomers and scientists.
- 3. From the text, we can infer that the solar system formed approximately 4.6 billion years ago and has since continued to captivate astronomers and scientists.
- 4. Astronomers and scientists continue to be captivated by the solar system's mysteries and wonders because they present ongoing exploration opportunities, potential for new discoveries, and the chance to better understand the universe.
- 5. Earth is considered unique among the planets in the solar system due to its known support for life, which is currently not found on any other planet.

Retrieval

- 1. The inner planets in our solar system are Mercury, Venus, Earth, and Mars.
- 2. There are eight planets in the solar system. In order from the Sun outward, they are Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus, and Neptune.
- 3. Saturn's rings are made of rock and ice.
- 4. Jupiter is known as the largest planet because of its greater mass and size compared to the other planets in the solar system.
- 5. The solar system is believed to have formed approximately 4.6 billion years ago.

Summarising

- 1. The solar system consists of the Sun and objects that orbit around it, including eight planets, numerous moons, asteroids, comets, and other space rocks.
- 2. Earth is unique for supporting life, Mars has the tallest volcano and largest canyon, Jupiter has a giant red spot, and Saturn is known for its beautiful rings made of rock and ice.
- 3. The solar system is vast and fascinating due to its immense size, diverse celestial objects, and the mysteries it presents to astronomers and scientists.
- 4. The solar system continues to captivate astronomers and scientists due to ongoing exploration opportunities, potential for new discoveries, and the chance to better understand the universe.
- 5. The solar system's formation approximately 4.6 billion years ago and ongoing discoveries contribute to our deepening understanding of the universe.