



Practice Worksheet on Solar System

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Subject: Science

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Long Answer Questions

1. Describe the Sun and its role in the solar system.
2. Describe Mercury, including its size, composition, and temperature.
3. Describe Venus and its atmospheric conditions.
4. Explain why Earth is habitable and what makes it unique among planets in the solar system.
5. Describe Mars, its surface features and evidence of past water.
6. Describe Jupiter, its size, composition, and notable features.
7. Describe Saturn's rings and what they are made of.

8. Compare and contrast Uranus and Neptune, focusing on their compositions and locations.

Multiple Choice Questions

1. What is the center of our solar system?

- a) Earth
- b) Sun
- c) Mars
- d) Jupiter

2. What type of planet is Mercury?

- a) Gas giant
- b) Rocky planet
- c) Ice giant
- d) Dwarf planet

3. What is the surface temperature of Venus like?

- a) Cold
- b) Hot
- c) Temperate
- d) Moderate

4. What gives Mars its reddish color?

- a) Water ice
- b) Lava
- c) Iron oxide
- d) Carbon dioxide

5. What are Saturn's rings composed of?

- a) Rings made of gas
- b) Rings made of ice and rock
- c) No rings
- d) Rings made of dust

6. What type of planets are Uranus and Neptune?

- a) Rocky
- b) Gaseous
- c) Ice giants
- d) Dwarf planets

7. What is Jupiter classified as in our solar system?

- a) Asteroid
- b) Comet
- c) Planet
- d) Meteor

8. How does the Sun produce its energy?

- a) Nuclear fusion
- b) Chemical reactions
- c) Gravitational collapse
- d) Friction

Answer Key

Long Answer Questions - Expected Responses

1. Describe the Sun and its role in the solar system.

Expected Answer: The Sun is a star, the center of our solar system. It's a giant ball of hot gas that produces light and heat through nuclear fusion.

2. Describe Mercury, including its size, composition, and temperature.

Expected Answer: Mercury is the closest planet to the Sun, small and rocky with extreme temperature variations.

3. Describe Venus and its atmospheric conditions.

Expected Answer: Venus is the second planet from the sun, known for its extremely hot temperatures due to a runaway greenhouse effect.

4. Explain why Earth is habitable and what makes it unique among planets in the solar system.

Expected Answer: Earth is the third planet from the Sun, supports life due to liquid water and a suitable atmosphere.

5. Describe Mars, its surface features and evidence of past water.

Expected Answer: Mars is the fourth planet, known as the 'Red Planet' because of the iron oxide on its surface, with evidence of past water.

6. Describe Jupiter, its size, composition, and notable features.

Expected Answer: Jupiter is the largest planet, a gas giant with a Great Red Spot (a giant storm).

7. Describe Saturn's rings and what they are made of.

Expected Answer: Saturn is known for its prominent rings, made of ice and rock particles, and is also a gas giant.

8. Compare and contrast Uranus and Neptune, focusing on their compositions and locations.

Expected Answer: Uranus and Neptune are ice giants, further from the Sun and colder, with unique atmospheric compositions.

Multiple Choice Questions – Correct Answers

1. What is the center of our solar system?

Correct Answer: Sun

2. What type of planet is Mercury?

Correct Answer: Rocky planet

3. What is the surface temperature of Venus like?

Correct Answer: Hot

4. What gives Mars its reddish color?

Correct Answer: Iron oxide

5. What are Saturn's rings composed of?

Correct Answer: Rings made of ice and rock

6. What type of planets are Uranus and Neptune?

Correct Answer: Ice giants

7. What is Jupiter classified as in our solar system?

Correct Answer: Planet

8. How does the Sun produce its energy?

Correct Answer: Nuclear fusion