

PRACTICE WORKSHEET 3: SUNITA IN SPACE | CLASS 5 ENVIRONMENTAL STUDIES

Multiple Choice Questions

1. Why is there no gravitational pull in space?
 - a. Because space is too far from the sun
 - b. Because there is no air in space
 - c. Because space is far from large objects like the earth
 - d. Because astronauts move too fast
 2. How do astronauts eat in space?
 - a. By holding their plates in their hands
 - b. By eating floating food blobs or from sealed pouches
 - c. By using magnetic plates and spoons
 - d. By tying food to their hands
 3. What happens to the shape of water in space?
 - a. It spreads like a flat sheet
 - b. It forms bubbles or blobs
 - c. It turns into vapor instantly
 - d. It freezes into ice cubes
 4. How many hours does it take for a spacecraft to orbit the earth once?
 - a. 5 hours
 - b. 3 hours
 - c. 1.5 hours
 - d. 24 hours
 5. Why do astronauts exercise regularly in space?
 - a. To pass the time
 - b. To prevent muscle loss and stay fit in zero gravity
 - c. To adjust their suits
 - d. To learn new movement techniques
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Fill in the Blanks

1. In space, food and water need to be _____ to avoid floating away.
 2. Sunita Williams described the earth as _____ and beautiful from space.
 3. Astronauts must _____ themselves to their seats while working in the spaceship.
 4. Space suits protect astronauts from harmful _____ and extreme temperatures.
 5. A spacecraft orbits the earth in about _____ hours.
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True or False

1. Water forms flat shapes in space due to the absence of gravity. (True/False)
 2. Astronauts need to exercise in space to stay healthy. (True/False)
 3. Food floats in space because there is no gravitational pull. (True/False)
 4. The earth's borders are clearly visible from space. (True/False)
 5. Gravity is completely absent in the space station. (True/False)
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Short Questions

1. What does the absence of gravity in space mean for astronauts?
 2. How does the shape of the earth appear from space?
 3. Why do astronauts need special equipment and tools in space?
 4. What happens to water in space, and how do astronauts drink it?
 5. Why do astronauts have to exercise regularly while living in space?
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Long Questions

1. Discuss the challenges faced by astronauts in zero gravity and how they overcome them.
 2. Explain the concept of gravity and how its absence in space affects basic activities like eating, sleeping, and working.
 3. Describe the importance of space exploration and how it helps us understand the earth better.
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Answer Key

Multiple Choice Questions

1. c. Because space is far from large objects like the earth
 2. b. By eating floating food blobs or from sealed pouches
 3. b. It forms bubbles or blobs
 4. c. 1.5 hours
 5. b. To prevent muscle loss and stay fit in zero gravity
-

Fill in the Blanks

1. Sealed
 2. Round
 3. Strap
 4. Radiation
 5. 1.5
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True or False

1. False
 2. True
 3. True
 4. False
 5. True
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Short Questions

1. The absence of gravity causes everything, including astronauts, to float, requiring them to strap themselves and adapt to new ways of moving and working.
 2. From space, the earth appears round, beautiful, and covered mostly in blue, with no visible borders between countries.
 3. Special equipment and tools, such as space suits, oxygen tanks, and sealed pouches, help astronauts survive, breathe, and work in space's challenging conditions.
 4. Water forms blobs in space, and astronauts drink it by catching these blobs or using straws attached to sealed containers.
 5. Astronauts exercise regularly to prevent muscle loss and maintain physical strength in the absence of gravity.
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Long Questions

1. **Challenges in Zero Gravity:** Astronauts face floating objects, difficulty eating and drinking, and the risk of muscle and bone loss. They adapt by using straps, exercising, and relying on specially designed equipment.
2. **Gravity and Its Absence:** Gravity keeps objects grounded on earth. In space, its absence causes weightlessness, making everyday activities like eating, drinking, and sleeping challenging. Astronauts use straps and special tools to manage these tasks.
3. **Importance of Space Exploration:** Space exploration helps us learn about the earth, weather, and universe. It inspires innovation in technology and fosters global cooperation, while reminding us of the earth's fragility and need for preservation.