

Name \_\_\_\_\_

## Astronauts and the Wonders of Weightlessness: Exploring Microgravity in Space

### Short Answer Key

1. Astronauts adapt to the sensation of disorientation in microgravity through practice and by relying on visual cues.
2. Objects don't fall to the ground in microgravity because they are in a continuous state of free fall, just like the spacecraft they are in.
3. Astronauts face challenges like food and liquids floating away in microgravity. They overcome this by using specially designed pouches and straws.
4. Astronauts sleep in sleeping bags attached to the walls or ceiling in microgravity because there is no up or down, and they can sleep in any orientation.
5. One example of a scientific experiment in microgravity is studying how liquids behave in space, which can lead to advancements in fluid dynamics and fuel efficiency.

