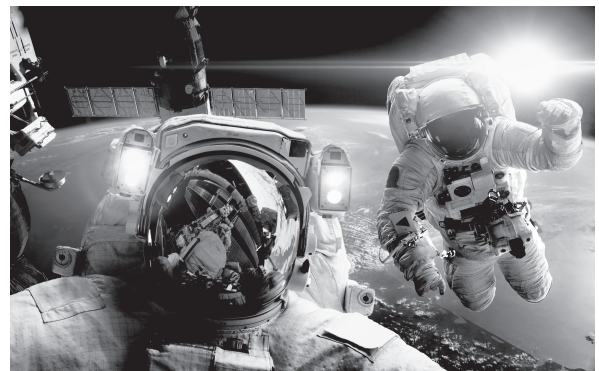


How Zero Gravity Affects the Human Body

In June 2024, American astronauts Barry Wilmore and Sunita Williams traveled to the International Space Station (ISS) on Boeing's Starliner spacecraft. Their mission was planned to last only eight days. However, owing to problems with the spacecraft's propulsion system, their return was delayed. In the end, they stayed on the ISS for nine months. They finally came back to Earth in March 2025 on SpaceX's Dragon spacecraft. This unexpected situation kept them in space much longer than planned, exposing their bodies to zero gravity for an extended time, which had many effects on their health.

Gravity on Earth is very important for human growth and health. In space, where there is little gravity, muscles and bones become weaker because they do not have to support body weight. Bone density also decreases, increasing the risk of fractures. In addition, the heart and blood system are used to Earth's gravity. In space, bodily fluids move differently, which can affect heart function. Even after returning to Earth, astronauts need time to get



used to normal gravity again. Because of these challenges, health management for long space missions is an important area of space research.

This event shows that space technology still needs improvement and makes people think more about how humans adapt to extreme environments. From the effects of zero gravity on the body to the challenges of developing new technology, every step in space exploration requires knowledge from biology, medicine, engineering, and other fields. The experience of staying in space for so long may help scientists better understand how space affects the human body. It may also help advance space technology and prepare for future space travel.

Reading Comprehension

- () 1. What is the passage mainly about? (main idea)
- (A) The comparison of life on Earth and that on the ISS.
 - (B) How astronauts train before space missions to handle long-term travel.
 - (C) How astronauts communicate with Earth while they are on space missions.
 - (D) The effects of zero gravity on astronauts' bodies and space research challenges.
- () 2. From (A) to (F) below, choose the **ONES** that are true according to this passage. (多選題) (supporting details)
- (A) Zero gravity had little impact on the astronauts' bodies.
 - (B) The astronauts were on the ISS for longer than expected.
 - (C) Long-term space missions pose few health risks to astronauts.
 - (D) The space mission was completed as scheduled with no delays.
 - (E) The astronauts' mission was delayed because of technical problems.
 - (F) The astronauts' health remained unaffected during the space mission.

3. 請從文章中找出最適當的單詞 (word) 填入下列句子空格中，並視句型結構需要做適當的字形變化，使句子語意完整、語法正確，並符合全文文意。每格限填一個單詞 (word)。(填充) (words in context)

In June 2024, two American astronauts traveled to the ISS. Owing to technical problems, they didn't return to Earth until March 2025. They were kept in space much longer than the original (1) _____ allowed. Their (2) _____ to zero gravity for an extended time greatly affected their health.

Vocabulary and Phrases

- | | | |
|------------------------------|-----------------------------|-----------------------------|
| 1. gravity <i>n.</i> 重力·地心引力 | 4. expose <i>v.</i> 暴露 | 7. fracture <i>n.</i> 骨折 |
| 2. mission <i>n.</i> 任務 | 5. extended <i>adj.</i> 延長的 | 8. adapt <i>v.</i> 適應 |
| 3. propulsion <i>n.</i> 推進 | 6. density <i>n.</i> 密度 | 9. exploration <i>n.</i> 探索 |

Ne Zha's Cartoon Films Became a Big Hit

The director of the “Ne Zha” cartoon film series, Yang Yu, also known as Jiaozi, has seen great success with recent releases. The series began in 2019 and achieved impressive global results. Not only did it break box office 1 for cartoon films, but it also drew international attention to the growth of Chinese animated films. *Ne Zha 2*, released in 2025, continued the high-quality production of the earlier film. Within a short period, it made over 10 billion yuan at the box office, becoming one of the highest-earning cartoon films of all time. The film was praised for its exciting story and emotional depth, making it popular with many viewers.

What makes this cartoon film series special is its fresh take on the classic character, breaking away from earlier storytelling styles. In this series, Ne Zha is no longer the well-mannered young hero found in older stories or films. 2, he is a wild troublemaker who fights against fate, bringing a more modern and easy-to-understand side of the character to the screen. 3, the art style used in the series is impressive, with detailed backgrounds and exciting special effects. Many fans enjoyed the

mix of traditional Chinese culture with new storytelling methods, making the films stand out from other animated 4.

The success of the Ne Zha cartoon film series not only shows advancements in animated film technology but also proves the power of mixing local culture with fresh storytelling. As *Ne Zha 2* continues to entertain 5, we may see more exciting animated films based on traditional stories. These films could help introduce Chinese legends to a wider audience and bring more interest to the country's growing cartoon film industry.



Fill in the Blanks

(A) works (B) records (C) audiences (D) Instead (E) Additionally

1. _____ 2. _____ 3. _____ 4. _____ 5. _____

Vocabulary and Phrases

1. series *n.* 系列
2. release *n.* 上映；發行
3. animated *adj.* 動畫的
4. viewer *n.* 觀眾
5. storytelling *n.* 敘事，講故事
6. troublemaker *n.* 鬧事者，惹事生非者
7. advancement *n.* 進展，提升
8. entertain *v.* 娛樂
9. legend *n.* 傳說

譯

零重力對人體的影響

在 2024 年 6 月，美國太空人 Barry Wilmore 和 Sunita Williams 搭乘波音公司 (Boeing) 的星際飛機號 (Starliner) 前往國際太空站 (ISS)。他們的任務原定為期只有八天。然而，由於太空船的推進系統出現問題，他們的返程被延遲。最終，他們在國際太空站停留了九個月。他們於 2025 年 3 月搭乘太空探索科技公司 (SpaceX) 的乘龍號 (Dragon) 太空船終於回到地球。這一意外情況使他們停留在太空中的時間遠超預期，並使他們的身體長時間暴露於零重力環境，對他們的健康產生許多影響。

地球上的重力對人體的生長與健康非常重要。在太空中，由於幾乎沒有重力，肌肉和骨骼會變弱，因為它們不需要支撐身體的重量。骨密度也會下降，增加骨折的風險。此外，心臟和血液系統習慣地球的重力。在太空中，體液的移動方式不同，這很可能會影響心臟功能。即便回到地球，太空人也需要時間來重新適應正常的重力。由於這些挑戰，長期太空任務的健康管理是太空研究中的重要領域。

這一事件顯示太空科技仍需改進，並讓人們更加關注人類如何適應極端環境。從零重力對人體的影響，到開發新技術的挑戰，太空探索的每一步都需要來自於生物學、醫學、工程學以及其他領域的知識。長時間待在太空中的經歷，可能有助於科學家更加了解太空對人體的影響。這也有助於推動太空科技的進步，並為未來的太空旅行做好準備。

譯

哪吒動畫電影大受歡迎

《哪吒》動畫電影系列的導演楊宇 (又名餃子) 在近期的作品中獲得了巨大成功。該系列自 2019 年開始上映，並在全球取得了亮眼的成績。不僅打破了動畫電影的票房紀錄，還讓世界關注到中國動畫電影的成長。2025 年上映的《哪吒 2》延續了前作的高品質製作。其票房在短時間內突破了 100 億元，成為歷史上票房最高的動畫電影之一。該片因其緊湊的劇情和豐富的情感深度而廣受觀眾喜愛。

這系列動畫電影的特別之處在於對經典角色的全新詮釋，突破了過去的敘事風格。在這個系列中，哪吒不再是舊版故事或電影中端莊乖巧的少年英雄。相反地，他是個桀驁不馴、反抗命運的頑童，讓這個角色展現出更符合現代觀眾喜好且易於理解的個性。此外，這個系列的美術風格令人驚豔，有細緻的背景與震撼人心的特效。許多影迷喜歡片中將中國傳統文化與新穎的敘事方式相結合，使這些電影在眾多動畫作品中脫穎而出。

《哪吒》動畫電影系列的成功不僅展現了動畫技術的進步，也證明了本土文化與創新故事相結合的力量。隨著《哪吒 2》繼續為觀眾提供娛樂，未來或許會有更多基於傳統故事的精彩動畫電影問世。這些電影很可能有助於中國傳說被更多人認識，並推動中國動畫產業的發展。

閱讀測驗解答：1. D 2. BE 3.(1) plan (2) exposure

文意選填解答：1. B 2. D 3. E 4. A 5. C

Acknowledgments

“How Zero Gravity Affects the Human Body” by Catherine Ruth Harrington

“Ne Zha’s Cartoon Films Became a Big Hit” by Catherine Ruth Harrington

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