



Creating Space Babies Could Prove More Challenging Than Expected

Description

NASA says space travel has five dangers. These are space radiation, feeling alone, being far from Earth, lack of gravity, and harsh conditions. The human body can change in some ways for space travel, like the heart and balance. However, bones, calcium levels, and reproduction struggle to recover. There is also little proof that space travel can harm hormone signals and egg or sperm quality. This harm might not fix itself when people come back to Earth.

For people who want to have children in space, the risks could be higher. Long time in space can cause more problems with reproduction. Changes in genes may affect fertility and health in future children.

Scientists know some about how radiation affects people. But there is still much to learn. Current knowledge shows radiation can harm reproductive health. This can make it hard to have healthy babies. The effects of long time in low gravity are still unclear. Changes in gravity might impact hormone levels and early baby growth.

Palmer says radiation can hurt DNA and increase cancer risk. Microgravity can also create problems with hormones and baby development. Due to these serious risks, Palmer calls for rules to protect people and future children in space.

Vocabulary List:

1. **Radiation** /ˌreɪ.diˈeɪ.ʃən/ (noun): Energy emitted in the form of waves or particles.
2. **Reproduction** /ˌriː.prɪˈdʌk.ʃən/ (noun): The biological process by which new individual organisms are produced.
3. **Fertility** /fərˈtɪl.ɪ.ti/ (noun): The ability to conceive children or young.
4. **Microgravity** /ˌmaɪ.krəʊˈgræv.ɪ.ti/ (noun): A condition in which people or objects appear to be weightless.
5. **Hormones** /ˈhɔːr.məʊnz/ (noun): Chemical substances produced in the body that control and regulate various functions.
6. **Development** /dɪˈvel.əp.mənt/ (noun): The process of developing or being developed such as growth or evolution.

Comprehension Questions



Multiple Choice

1. What are the five dangers of space travel according to NASA?
 - Option: Space radiation, feeling alone, long-distance from Earth, lack of gravity, harsh conditions
 - Option: Meteor showers, space debris, lack of oxygen, microgravity, solar flares
 - Option: Alien encounters, time travel paradoxes, black holes, wormholes, dark matter
 - Option: Atmospheric pressure, magnetic fields, extreme temperatures, radioactivity, cosmic rays

2. Which of the following is mentioned as a struggle for the human body during space travel?
 - Option: Heart and balance changes
 - Option: Improved bone density
 - Option: Higher calcium levels
 - Option: Enhanced reproductive functions

3. According to the text, what is a risk associated with having children in space?
 - Option: Enhanced fertility
 - Option: Changes in genes affecting future children
 - Option: Decreased cancer risk
 - Option: Improved reproductive health

4. What does Palmer suggest to protect people and future children in space?
 - Option: Ignore the risks and continue space missions
 - Option: Create stricter regulations for space travel
 - Option: Encourage more people to have children in space
 - Option: Increase exposure to radiation for better adaptation

5. Which bodily function mentioned may struggle to recover after space travel?
 - Option: Reproduction
 - Option: Muscle strength
 - Option: Digestive system
 - Option: Vision

6. What is mentioned as a potential impact of long durations in low gravity according to the text?
 - Option: Improved hormone levels
 - Option: Stunted baby growth
 - Option: Enhanced DNA repair
 - Option: Accelerated aging process



True-False

7. The effects of radiation on reproductive health are well understood by scientists.
8. Long periods in space can cause more problems with reproduction.
9. Changes in gravity have a clear impact on hormone levels during space travel.
10. Palmer calls for rules to protect both people and future children in space due to the risks involved.
11. There is little proof that space travel can harm sperm or egg quality.
12. The human body completely reverts to normal upon returning to Earth after space travel.

Gap-Fill

14. For people who want to have children in space, the risks could be _____.
15. Changes in genes may affect fertility and health in future _____.
16. The effects of long time in low gravity are still _____.
17. Microgravity can create problems with hormones and _____ development.
18. Palmer calls for rules to _____ people and future children in space.

Answer

Multiple Choice: 1. Space radiation, feeling alone, long-distance from Earth, lack of gravity, harsh conditions
2. Heart and balance changes 3. Changes in genes affecting future children 4. Create stricter regulations for space travel 5. Reproduction 6. Stunted baby growth

True-False: 7. False 8. True 9. False 10. True 11. True 12. False

Gap-Fill: 14. higher 15. children 16. unclear 17. baby 18. protect

Vocabulary quizzes



Multiple Choice (Select the Correct answer for each question.)

1. What field of study does quantum theory primarily belong to?
Option: Biology
Option: Physics
Option: Chemistry
Option: Mathematics

2. Which of the following is a type of radiation?
Option: Alpha
Option: Osmosis
Option: Diffusion
Option: Convection

3. What factor primarily influences fertility in species?
Option: Temperature
Option: Nutrition
Option: Habitat
Option: All of the above

4. What environment is characterized by a condition of weightlessness?
Option: High altitude
Option: Desert
Option: Underwater
Option: Microgravity

5. Which of the following is critical for the development of embryos?
Option: Nutrient supply
Option: Temperature regulation
Option: Hormonal balance
Option: All of the above

6. Which of the following defines a species?
Option: Ability to adapt
Option: Organisms that can interbreed
Option: Physiological characteristics
Option: All of the above

7. What do fossils primarily provide evidence for?
Option: Extinct species
Option: Climate change
Option: Geological formations



Option: Live specimens

8. In systems theory feedback is used to control what?

- Option: Inputs
- Option: Outputs
- Option: Both inputs and outputs
- Option: None of the above

9. What process involves combining multiple elements to create a new compound?

- Option: Decomposition
- Option: Synthesis
- Option: Metabolism
- Option: Respiration

10. What term describes the act of stopping something from progressing?

- Option: Enable
- Option: Facilitate
- Option: Block
- Option: Encourage

Gap-Fill (Fill in the blanks with the correct word from the vocabulary list.)

11. Quantum _____ explains the behavior of matter at atomic and subatomic levels.

12. Scientific experiments conducted in _____ environments often yield different results than those on Earth.

13. Exposure to high levels of _____ can be harmful to living organisms.

14. Nutrition environmental conditions and hormones all affect reproductive _____ in organisms.

15. Early _____ is crucial in determining the future health of an organism.

16. Every _____ has unique adaptations that allow it to thrive in its environment.

17. _____ play a crucial role in plant population control and ecosystem balance.

18. Paleontologists study _____ to understand the history of life on Earth.

19. Constructive _____ can significantly improve research outcomes and development



processes.

20. _____ often collaborate to expand the knowledge base in various scientific fields.

Matching Sentences (Match each definition to the correct word from the vocabulary list.)

21. In a feedback system inputs are critical for generating appropriate responses.
22. Outputs represent the results produced by a system after processing inputs.
23. The scientist made a groundbreaking discovery that changed the understanding of genetics.
24. Addressing environmental problems requires innovative and collaborative efforts.
25. Scientific models are used to simulate and predict complex phenomena.
26. Authentic research findings are essential for advancing scientific knowledge.
27. Synthetic materials have transformed industries by providing cost-effective alternatives.
28. A filter is used to separate unwanted materials or components from a mixture.
29. Certain chemicals can block the process of photosynthesis in plants.
30. Creative solutions are necessary to tackle complex challenges faced by society.

Answer

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on line **531**

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Multiple Choice: 1. Physics 2. Alpha 3. All of the above 4. Microgravity 5. All of the above 6. Organisms that can interbreed 7. Extinct species 8. Both inputs and outputs 9. Synthesis 10. Block

Gap-Fill: 11. theory 12. microgravity 13. radiation 14. fertility 15. development 16. species 17. Herbivores 18. fossils 19. feedback 20. Researchers

Matching sentence: 1. 2. 3. 4. 5. 6. 7. 8. 9. 10.

CATEGORY

1. Sci/Tech - LEVEL1

POST TAG

1. babies
2. ESL learning
3. esl news
4. hard
5. Level 1
6. space

Tags

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