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# ESA Warns of Space Junk Crisis: Earth's Orbit Overcrowded

## Description

The problem with debris in space around Earth is getting worse. According to the European Space Agency's yearly report, there is more and more space junk. We are putting satellites into space faster than they come back down. And there are way more broken satellites and spacecraft pieces than working ones. If we keep going like this, there could be a dangerous chain reaction where debris crashes into each other, creating even more debris. The risk of collisions in space is going up fast. Scientists say that even if we stop launching new things into space, the amount of debris will keep growing. This could make some orbits unsafe over time. It's important to clean up space around Earth and work together to keep it safe for everyone.

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## Vocabulary List:

1. **Debris** /dɪˈbriː/ (noun): Scattered pieces of waste or remains.
2. **Collisions** /kəˈlɪʒən/ (noun): Instances of two or more objects striking each other.
3. **Satellites** /ˈsæt.əl.aɪts/ (noun): Artificial bodies placed in orbit around a planet.
4. **Unsafe** /ʌnˈseɪf/ (adjective): Not safe or secure; presenting a risk of danger.
5. **Reaction** /rɪˈækʃən/ (noun): An action or change resulting from a stimulus.
6. **Orbits** /ˈɔːr.bɪts/ (noun): The curved paths of celestial bodies around a star or planet.

## Comprehension Questions

### Multiple Choice

1. According to the European Space Agency's report, what is happening to the amount of debris in space around Earth?

- Option: Decreasing steadily
- Option: Staying constant
- Option: Increasing
- Option: Varying unpredictably

2. What is the main concern related to the growing amount of space junk?



- Option: Increased satellite efficiency
- Option: Formation of new planets
- Option: Risk of collisions in space
- Option: Development of new technologies

3. What kind of reaction could occur if debris in space crashes into each other?

- Option: Creation of new satellites
- Option: Formation of a protective layer
- Option: Dangerous chain reaction
- Option: Enhanced communication systems

4. What do scientists predict will happen to the amount of space debris even if we stop launching new objects into space?

- Option: It will decrease rapidly
- Option: It will stay the same
- Option: It will disappear completely
- Option: It will keep growing

5. What is highlighted as an important action in the content to address the issue of space debris?

- Option: Increasing satellite launches
- Option: Ignoring the problem
- Option: Working together to clean up space
- Option: Leaving space junk as it is

6. What could happen to some orbits over time if the space debris issue is not resolved?

- Option: They will become more stable
- Option: They will shrink in size
- Option: They will become unsafe
- Option: They will disappear

### **True-False**

7. The risk of collisions in space is decreasing according to the European Space Agency's report.

8. Continued launch of new spacecraft contributes to the reduction of space debris.

9. Scientists warn about the potential dangers of a chain reaction caused by space debris collisions.

10. The content suggests that the amount of working satellites in space exceeds the amount of broken



ones.

11. The content emphasizes the importance of addressing the space debris issue collectively.

12. Space agencies are considering leaving space junk unattended to reduce costs.

### Gap-Fill

13. According to the content, we are putting satellites into space faster than they come back down. As a result, the amount of space junk is \_\_\_\_\_.

14. Scientists warn of a dangerous chain reaction in space if debris crashes into each other, leading to the creation of even more \_\_\_\_\_.

15. One of the concerns raised is that even if new launches cease, the amount of space debris will continue to \_\_\_\_\_.

16. The content stresses the need to actively work together to clean up space around Earth and ensure safety for \_\_\_\_\_.

17. Some orbits may become \_\_\_\_\_ over time if the issue of space debris remains unaddressed.

18. The risk of collisions in space is \_\_\_\_\_ according to the information provided.

### Answer

**Multiple Choice:** 1. Increasing 2. Risk of collisions in space 3. Dangerous chain reaction 4. It will keep growing 5. Working together to clean up space 6. They will become unsafe

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

**Gap-Fill:** 13. increasing 14. debris 15. grow 16. everyone 17. unsafe 18. going up fast

### Vocabulary quizzes



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

1. What can cause mutations in DNA and lead to cancer?  
Option: Radiation  
Option: Debris  
Option: Satellites  
Option: Ecosystems
2. What can be used to communicate instantly across the globe?  
Option: Strokes  
Option: Technology  
Option: Promotion  
Option: Habitat
3. Where is biodiversity essential for maintaining balance?  
Option: Production  
Option: Ecosystems  
Option: Risks  
Option: Unsafe
4. What leads to habitat destruction and pollution?  
Option: Significant  
Option: Urbanization  
Option: Risks  
Option: Orbits
5. What can render satellites unsafe for operation?  
Option: Radiation  
Option: Debris  
Option: Collisions  
Option: Promising
6. In what setting are hormonal imbalances often diagnosed and treated?  
Option: Clinical  
Option: Reaction  
Option: Exposure  
Option: Analyzing
7. Why is it necessary to be able to detect radiation exposure?  
Option: Reaction  
Option: Detection  
Option: Orbits



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Option: Biodiversity

8. What kind of technology development offers new solutions?

Option: Promising

Option: Eager

Option: Analyzing

Option: Risks

9. Why is it important to analyze the effects of certain exposures on disabilities?

Option: Disabilities

Option: Stroke

Option: Instantly

Option: Habitat

10. What could happen to species due to habitat loss and urbanization?

Option: Pollution

Option: Extinct

Option: Biodiversity

Option: Technology

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

11. When individuals are \_\_\_\_\_ to radiation it can have harmful effects on their health.

12. Proper monitoring of radiation levels is \_\_\_\_\_ for ensuring safety in nuclear facilities.

13. \_\_\_\_\_ data from clinical studies helps in understanding the impact of certain factors on health.

14. Advancements in technology allow us to communicate \_\_\_\_\_ with anyone around the world.

15. Assessing the potential \_\_\_\_\_ associated with a certain activity is crucial for decision-making.

16. Space missions have to consider the risks of collisions with \_\_\_\_\_ in orbit.

17. Satellites are placed in specific \_\_\_\_\_ around the Earth to perform their functions.

18. Managing waste and pollution from industrial \_\_\_\_\_ is essential for environmental



protection.

19. Certain medical conditions are treated with \_\_\_\_\_ therapy to restore balance in the body.

20. Understanding the body's \_\_\_\_\_ to different stimuli is crucial in medical research.

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

21. A stroke can result from a disruption of blood flow to the brain leading to potential brain damage.
22. Urbanization often results in increased pollution levels impacting the quality of air and water.
23. Debris orbiting Earth poses a significant risk to satellites in operation potentially causing collisions.
24. Habitat destruction contributes to the decline in biodiversity affecting various species and ecosystems.
25. Exposure to certain chemicals or substances can render a workplace unsafe for employees requiring safety measures.
26. In medical emergencies a quick and appropriate reaction to the situation can significantly impact the outcome.
27. The destruction of natural habitats due to human activities threatens many species with extinction.
28. A significant increase in temperature can have far-reaching effects on polar ice caps and global weather patterns.
29. Scientists and researchers are eager to explore new technologies to address pressing social and environmental issues.
30. Efficient communication is essential in emergency response situations to coordinate actions effectively.

## Answer

**Multiple Choice:** 1. Radiation 2. Technology 3. Ecosystems 4. Urbanization 5. Collisions 6. Clinical 7. Detection 8. Promising 9. Disabilities 10. Extinct

**Gap-Fill:** 11. Exposed 12. Necessary 13. Analyzing 14. Instantly 15. Risks 16. Debris 17. Orbits 18. Production



19. Hormonal 20. Reaction

**Matching sentence:** 1. Stroke 2. Pollution 3. Satellites 4. Biodiversity 5. Unsafe 6. Reaction 7. Habitat  
8. Significant 9. Eager 10. Communication

## **CATEGORY**

1. Health - LEVEL2

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