



Surviving asteroids & understanding climate change: lessons learned

Description

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We can't predict natural disasters like earthquakes far in advance, but we can prepare for asteroid strikes. Scientists and engineers are working on plans to defend Earth if a large asteroid is headed our way. Techniques like changing an asteroid's path have been tested successfully by NASA.

Role-playing games are helpful in preparing for asteroid strikes by revealing potential problems in the plans. Global collaboration and clear communication are key in avoiding disaster. These lessons apply not just to asteroids, but also to other threats like climate change and pandemics.

Addressing these challenges requires both technical solutions and social cooperation. Effective communication and collaboration are essential for solving the world's biggest problems, whether in a game or in reality.

Vocabulary List:

1. **Disasters** /dɪs'æstərz/ (noun): Sudden events that cause great damage or loss.
2. **Prepare** /prɪ'peə/ (verb): To make ready or to get ready for a specific purpose.
3. **Collaboration** /kə,læbə'reɪʃən/ (noun): The action of working with someone to produce or create something.
4. **Techniques** /tek'ni:ks/ (noun): Methods or approaches used in a particular field.
5. **Challenges** /'tʃælɪndʒɪz/ (noun): Difficulties that require a solution.
6. **Communication** /kə,mjʊnɪ'keɪʃən/ (noun): The act of conveying information or expressing ideas.

Comprehension Questions

Multiple Choice

1. What type of natural disasters can we not predict far in advance?
Option: Earthquakes
Option: Tornadoes
Option: Floods
Option: Avalanches
2. Which organization has successfully tested techniques for changing an asteroid's path?
Option: NASA
Option: ESA
Option: SpaceX
Option: ISRO



3. What is key to avoiding disaster when preparing for asteroid strikes?

- Option: Global collaboration and clear communication
- Option: Advanced technology
- Option: Isolation
- Option: Government secrecy

4. What lessons from preparing for asteroid strikes apply to other threats like climate change and pandemics?

- Option: Effective communication and collaboration
- Option: Technological advancements only
- Option: Isolationist approaches
- Option: Destruction

5. What is essential for solving the world's biggest problems according to the text?

- Option: Effective communication and collaboration
- Option: Isolation
- Option: Advanced weaponry
- Option: Secrecy

6. Which of the following is useful in preparing for asteroid strikes by revealing potential problems?

- Option: Role-playing games
- Option: Video games
- Option: Outdoor activities
- Option: Educational seminars

True-False

7. We can predict natural disasters like earthquakes far in advance.

8. Global collaboration and clear communication are not key in avoiding asteroid strike disasters.

9. Technical solutions are the only requirement for addressing challenges like asteroid strikes.

10. Effective communication and collaboration are not essential for solving the world's biggest problems.

11. Role-playing games are not helpful in preparing for asteroid strikes by revealing potential problems in the plans.



12. Social cooperation is not required for addressing challenges like asteroid strikes.

Gap-Fill

13. We can't predict natural disasters like earthquakes far in advance, but we can prepare for asteroid strikes. Scientists and engineers are working on plans to defend Earth if a large asteroid is headed our way.

Techniques like changing an asteroid's path have been tested successfully by _____.

14. Global collaboration and _____ are key in avoiding disaster when preparing for asteroid strikes.

15. Addressing challenges like asteroid strikes requires both _____ and social cooperation.

16. Effective communication and collaboration are essential for solving the world's biggest problems, whether in a game or in _____.

17. Role-playing games are helpful in preparing for asteroid strikes by revealing potential problems in the _____.

18. Lessons from asteroid strike preparation apply not just to asteroids, but also to other threats like climate change and _____.

Answer

Multiple Choice: 1. Earthquakes 2. NASA 3. Global collaboration and clear communication 4. Effective communication and collaboration 6. Role-playing games

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

Gap-Fill: 13. NASA 14. clear communication 15. technical solutions 16. reality 17. plans 18. pandemics

Vocabulary quizzes



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

1. Which branch of science deals with the study of molecules?

- Option: Physics
- Option: Chemistry
- Option: Biology
- Option: Geology

2. Who is known for exploring and documenting the Amazon rainforest?

- Option: Dr. Jane Goodall
- Option: Neil Armstrong
- Option: David Attenborough
- Option: Indiana Jones

3. What term refers to the ability to use or retrieve data?

- Option: Privacy
- Option: Accessibility
- Option: Encryption
- Option: Storage

4. What is essential before undertaking a challenging task?

- Option: Celebrate
- Option: Procrastinate
- Option: Prepare
- Option: Analyze

5. Which skill is vital for effective teamwork?

- Option: Technicality
- Option: Communication
- Option: Isolation
- Option: Rudeness

6. What stimulates growth and development?

- Option: Comfort
- Option: Challenges
- Option: Routine
- Option: Mediocrity

7. What are catastrophic events that cause significant damage?

- Option: Celebrations
- Option: Achievements
- Option: Disasters



Option: Innovations

8. Who has the power to make decisions and enforce obedience?

Option: Celebrity

Option: Boss

Option: Authority

Option: Entertainer

9. What term is used when two or more entities combine into one?

Option: Split

Option: Divide

Option: Merge

Option: Isolate

10. Which term describes highly developed or complex technologies?

Option: Basic

Option: Simple

Option: Intermediate

Option: Advanced

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

11. _____ is a greenhouse gas with a global warming potential more than 25 times that of carbon dioxide.

12. The _____ of a system is a measure of the average kinetic energy of the particles in the system.

13. The _____ of a film is responsible for overseeing the entire production process.

14. _____ between team members is crucial for the success of a project.

15. The _____ of a protein is essential for its function in biological systems.

16. Environmental _____ have led to worldwide efforts to reduce carbon emissions.

17. Regular practice can improve an athlete's _____ in competitions.

18. A supportive environment can _____ individuals to achieve their goals.



19. Recognizing the _____ of a task can increase one's dedication to completing it.
20. Some people are more _____ to criticism than others.

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

21. Different planets in our solar system have unique compositions of gases in their .
22. The DNA of a human shares about 98% similarity with that of a .
23. The success of a play depends on engaging the _____ with the performance.
24. An archeologist or historian is often considered an _____ due to their research expeditions.
25. One's traits are a combination of characteristics and behaviors that define them.
26. A government official appointed as head of a particular department is known as a .
27. Companies often engage in _____ to capture a larger market share.
28. Building trust with others often involves keeping one's _____.
29. Effective leaders address the _____ of their team members to ensure a harmonious work environment.
30. Artists often develop unique styles and methods referred to as artistic _____.

Answer

Multiple Choice: 1. Chemistry 2. David Attenborough 3. Accessibility 4. Prepare 5. Communication 6. Challenges 7. Disasters 8. Authority 9. Merge 10. Advanced

Gap-Fill: 11. Methane 12. Temperature 13. Director 14. Collaboration 15. Structure 16. Concern 17. Performance 18. Motivate 19. Importance 20. Sensitive

Matching sentence: 1. Atmospheres 2. Chimpanzee 3. Audience 4. Explorer 5. Personality 6. Commissioner 7. Competition 8. Promise 9. Concerns 10. Techniques

CATEGORY

1. Sci/Tech - LEVEL1

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