



Catastrophic Impact: Scientists Predict Bennu's 2182 Earth Collision

Description

Scientists have studied what might happen if a big asteroid hit Earth next century. They wanted to know how we could survive such a disaster.

Earth has not been hit by a large asteroid for a long time. But space has many rocks that can come close to our planet.

One of these rocks is called Bennu. It may hit Earth in 2182. The chance of this happening is small, about 1 in 2,700.

Scientists in South Korea studied the effects of a Bennu impact. They found that a collision could throw 400 million tons of dust into the sky.

This dust would block sunlight and cause the Earth to cool by 4 degrees Celsius. Rainfall could also decrease by 15 percent.

Plants would struggle to grow, and food supplies would be at risk. But some underwater plants like algae could grow faster because of nutrients in the dust.

In the past, medium-sized asteroids hit Earth every 100,000 to 200,000 years. This means that our ancestors may have lived through some of these events.

The study is in the journal *Science Advances*.

Vocabulary List:

1. **Asteroid** /'æs.tə.rɔɪd/ (noun): A small rocky body orbiting the sun especially in the region between Mars and Jupiter.
2. **Impact** /'ɪm.pækt/ (noun): The force of a collision; the effect or influence of one thing on another.
3. **Collision** /kə'liʒ.ən/ (noun): An instance of two or more objects coming together with force.
4. **Nutrients** /'njuː.tri.ənts/ (noun): Substances that provide nourishment essential for growth and the maintenance of life.
5. **Supplies** /sə'plaɪz/ (noun): The total amount of something that is available for use.
6. **Rainfall** /'reɪn.fɔːl/ (noun): The amount of rain that falls in a given area in a specified period.

Vocabulary quizzes



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

1. What celestial object is often a subject of scientific research due to its potential impact on Earth?
Option: Meteor
Option: Comet
Option: Asteroid
Option: Galaxy
2. Which substance can impair cognitive functions when consumed excessively?
Option: Water
Option: Tea
Option: Coffee
Option: Alcohol
3. What is an unexpected event that may cause harm or disruption?
Option: Routine
Option: Incident
Option: Success
Option: Joy
4. Which type of live bacteria are considered beneficial for gut health?
Option: Virus
Option: Parasites
Option: Fungi
Option: Probiotics
5. What term is used to describe individuals who did not succumb to a dangerous situation?
Option: Lost
Option: Survived
Option: Trapped
Option: Drowned
6. Which emotion is characterized by a high level of enthusiasm and anticipation?
Option: Calm
Option: Bored
Option: Excited
Option: Tired
7. What microorganisms can be both harmful and beneficial to human health?
Option: Fungi
Option: Bacteria
Option: Parasites



Option: Virus

8. What term relates to mental processes including perception memory and problem-solving?

- Option: Physical
- Option: Emotional
- Option: Cognitive
- Option: Social

9. What systematic investigation aims to discover and interpret facts?

- Option: Guesswork
- Option: Research
- Option: Rumors
- Option: Hearsay

10. What is a place of refuge or safety where people animals or plants are protected?

- Option: Desert
- Option: Sanctuary
- Option: Jungle
- Option: Cave

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

11. Asteroids can have a significant _____ on Earth if they collide with the planet.
12. Scientists have raised _____ about the potential dangers of certain behaviors.
13. The helicopter crash resulted in a _____ loss of lives.
14. The internet has revolutionized how people are _____ globally.
15. Scientists are conducting groundbreaking _____ on cognitive impairment and Alzheimer's disease.
16. The authorities _____ the path of the asteroid to avoid a collision with Earth.
17. Laughter is _____ and can spread positivity among people.
18. Eating a balanced diet ensures that your body receives essential _____ for good health.



19. Behavioral changes can be observed when people are under the influence of _____ .
20. The team of scientists is researching the effects of gut _____ on cognitive function.

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

21. The hikers packed essential gear and food for their trip into the wilderness.
22. The farmers were thankful for the abundant precipitation that nourished their crops.
23. The psychologist studied the various reactions and actions exhibited by the subjects.
24. The complex instructions left the students feeling bewildered and puzzled.
25. The rescue team arrived swiftly at the scene of the accident in the mountainous terrain.
26. The travelers boarded the train for a scenic journey through the countryside.
27. The unexpected occurrence led to chaos and confusion in the bustling city center.
28. The workshop encouraged active participation and engagement among the attendees.
29. Globalization has made the world more interlinked and united in various aspects.
30. The children were thrilled and eager about the upcoming holiday festivities.

Answer

Multiple Choice: 1. Asteroid 2. Alcohol 3. Incident 4. Probiotics 5. Survived 6. Excited 7. Bacteria 8. Cognitive 9. Research 10. Sanctuary

Gap-Fill: 11. impact 12. concerns 13. tragic 14. connected 15. research 16. diverted 17. contagious 18. nutrients 19. alcohol 20. research

Matching sentence: 1. Supplies 2. Rainfall 3. Behaviours 4. Confused 5. Helicopter 6. Passengers 7. Incident 8. Interaction 9. Connected 10. Excited

CATEGORY

1. Health - LEVEL1

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