Siberian Skies Ignited: Small Asteroid Impact

Description

An asteroid about 70 centimeters in size was seen by scientists just hours before it burned up harmlessly in the sky above Siberia.

The European Space Agency (ESA) warned people in Siberia about the asteroid's bright light in the sky at 11.15 pm local time.

Astronomer Alan Fitzsimmons from the UK said the small asteroid posed no danger but would create a bright fireball in the sky.

Scientists can now detect small asteroids early, like the one named C0WEPC5, the fourth predicted to hit the Earth this year.

Early detection allows astronomers to study asteroids and collect fragments for research. If we find larger dangerous asteroids approaching Earth, we may be able to change their path or evacuate areas at risk.

NASA and ESA track asteroids with telescopes to understand and predict their orbits better.

The asteroid was spotted by NASA's ATLAS system, giving scientists a week's warning of its impact.

Fitzsimmons said it was a win for science and a distraction for people in Siberia.

Vocabulary List:

1. **Asteroid** /ˈæs.tə.rɔɪd/ (noun): A small rocky body orbiting the sun often found in the asteroid belt between Mars and Jupiter.
2. **Harmlessly** /ˈhɑːrmləslɪ/ (adverb): In a way that does not cause harm or injury.
3. **Detection** /dɪˈtɛk.ʃən/ (noun): The action or process of identifying the presence of something.
4. **Fragment** /ˈfræg.mənt/ (noun): A small part broken or separated from something.
5. **Orbit** /ˈɔːr.bɪt/ (noun): The curved path of a celestial object or spacecraft around a star planet or moon.
6. **Evacuate** /ɪˈvæk.ju.eɪt/ (verb): To remove someone from a place of danger to a safer location.

Comprehension Questions

Multiple Choice

1. What warning did the European Space Agency give to people in Siberia regarding the asteroid?

   Option: A. Tsunami alert
   Option: B. Bright light in the sky
   Option: C. Coming meteor shower
   Option: D. Solar eclipse

2. Who spotted the asteroid C0WEPC5?

   Option: A. NASA
   Option: B. ESA
   Option: C. Alan Fitzsimmons
   Option: D. ATLAS system

3. What is one of the benefits of early detection of asteroids mentioned in the text?

   Option: A. Creating light shows in the sky
   Option: B. Changing the path of dangerous asteroids
   Option: C. Evacuating areas at risk

Option: D. Collecting fragments for research

4. What did Alan Fitzsimmons describe the asteroid as?

Option: A. Dangerously large
Option: B. Harmless but bright
Option: C. A comet
Option: D. A meteorite

5. What time did the ESA warn people in Siberia about the asteroid?

Option: A. 6 AM local time
Option: B. 8 PM local time
Option: C. 11:15 PM local time
Option: D. 2:30 PM local time

6. How many asteroids were predicted to hit the Earth that year?

Option: A. One
Option: B. Two
Option: C. Three
Option: D. Four

True-False

7. Alan Fitzsimmons stated that the small asteroid posed a danger to Earth.

8. NASA and ESA track asteroids to better understand and predict their orbits.

9. The asteroid was detected by the ATLAS system giving scientists a month of warning about its impact.

10. Early detection of asteroids allows astronomers to evacuate areas at risk.

11. Astronomers can study asteroids when they are detected early.

12. Alan Fitzsimmons described the asteroid as a win for science and a concern for people in Siberia.

Gap-Fill

13. The European Space Agency warned people in Siberia about the asteroid's bright light at

_____ pm local time.

15. The asteroid C0WEPC5 was the _____ predicted to hit the Earth that year.

16. NASA and ESA track asteroids with telescopes to understand and predict their _____

better.

17. Early detection allows astronomers to study asteroids and collect fragments for _____

.

18. If larger dangerous asteroids are detected approaching Earth, we may be able to change their path or

evacuate areas at _____ .

Answer

Multiple Choice: 1. B. Bright light in the sky 2. A. NASA 3. D. Collecting fragments for research 4. B. Harmless but bright 5. C. 11:15 PM local time 6. D. Four
True-False: 7. False 8. True 9. False 10. False 11. True 12. False
Gap-Fill: 13. 11:15 15. fourth 16. orbits 17. research 18. risk

Vocabulary quizzes

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

1. What are the rules and guidelines set by authorities called?

   Option: Laws
   Option: Suggestions
   Option: Preferences
   Option: Technology

2. What is the income generated by a company called?

   Option: Dementia
   Option: Proteins
   Option: Revenue

Option: Ageing

3. Who conducts scientific investigations to advance knowledge?

Option: Health
Option: Hailstones
Option: Damage
Option: Researchers

4. What medical procedure creates images of the body?

Option: Predict
Option: Casualties
Option: Unique
Option: Scans

5. Which term refers to one's liking or favoring of something?

Option: Forecast
Option: Artificial intelligence
Option: Suggestions
Option: Preference

6. What is a large rocky body that orbits the sun known as?

Option: Technology
Option: Asteroid
Option: Harmlessly
Option: Detection

7. What action is taken to move people out of a dangerous area?

Option: Fragment
Option: Orbit
Option: Evacuate
Option: Negotiations

8. What motivates or encourages someone to do something?

Option: Damage
Option: Incentive
Option: Uniqueness
Option: Inspiration

9. Which term refers to the overall well-being of a person?

Option: Preferences
Option: Technology
Option: Health
Option: Artificial intelligence

10. What is the process of discovering or identifying something?

Option: Detection
Option: Harmlessly
Option: Regulations
Option: Unique

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

11. The tsunami caused extensive _____ to the coastal areas.

12. Meteorologists use advanced technology to predict the weather _____ .

13. The diplomats are engaging in peace _____ to resolve the conflict.

14. The war resulted in a high number of _____ among both soldiers and civilians.

15. Watching the sunrise over the mountains filled him with a sense of _____ and awe.

16. The government is working on establishing a new legal _____ for environmental

protection.

17. Many industries are exploring the potential of _____ to streamline processes and

enhance productivity.

18. Each snowflake is _____ in its shape and structure.

19. As individuals age the risk of developing _____ increases.

20. A balanced diet should include sources of essential _____ for overall health.

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

21. The process of growing old and the changes associated with it.

22. To predict or estimate a future event or trend.
23. Being the only one of its kind; unlike anything else.
24. Frozen raindrops that fall as pellets of ice during a thunderstorm.
25. To make an educated guess or projection about a future occurrence.
26. The application of scientific knowledge for practical purposes especially in industry.
27. A small piece or part that has broken off from something larger.
28. The path followed by a celestial body around a star planet or moon.
29. Ideas or recommendations offered for consideration or action.
30. To remove people from a dangerous or hazardous place.

Answer

Multiple Choice: 1. Regulations 2. Revenue 3. Researchers 4. Scans 5. Preference 6. Asteroid 7. Evacuate 8. Incentive 9. Health 10. Detection
Gap-Fill: 11. damage 12. forecast 13. negotiations 14. casualties 15. inspiration 16. framework 17. artificial intelligence 18. unique 19. dementia 20. proteins
Matching sentence: 1. Ageing 2. Forecast 3. Unique 4. Hailstones 5. Predict 6. Technology 7. Fragment 8. Orbit 9. Suggestions 10. Evacuate

CATEGORY

1. Sci/Tech - LEVEL2

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