



## Siberian Skies Ignited: Small Asteroid Impact

### Description

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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 COWEPC5, 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.

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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.

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## Vocabulary List:

1. **Asteroid** /'æ.s.tə.rɔɪd/ (noun): A small rocky body orbiting the sun often found in the asteroid belt between Mars and Jupiter.
2. **Harmlessly** /'hɑ:rləsli/ (adverb): In a way that does not cause harm or injury.
3. **Detection** /dɪ'tek.ʃən/ (noun): The action or process of identifying the presence of something.
4. **Fragment** /'fræg.mənt/ (noun): A small part broken or separated from something.
5. **Orbit** /'ɔ:r.bɪt/ (noun): The curved path of a celestial object or spacecraft around a star planet or moon.
6. **Evacuate** /ɪ'væk.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



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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



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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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