



## Asteroid Set to Dramatically Burn Up in Earth's Atmosphere Today

### Description

ESL-NEWS.COM





Today, a small asteroid around 70 centimetres in diameter will create a stunning sight in the skies of northern Siberia. At approximately 11.15 pm local time, the asteroid will burn up in the atmosphere, producing a bright fireball. This harmless event has been forecasted by the European Space Agency.

According to Professor Alan Fitzsimmons from Queen's University Belfast, such occurrences offer a unique opportunity for astronomers to study these objects up close. This particular asteroid, named COWEPC5, is the fourth predicted asteroid strike on Earth this year.

With advancements in technology, we can now detect and track smaller asteroids early on, allowing for further research and potential deflection strategies in the future. NASA and ESA have dedicated programs for monitoring asteroids, including collaborations with amateur astronomers for data collection.

The asteroid was discovered by NASA's ATLAS system, designed to provide up to a week's notice of potential impacts. This event not only contributes to scientific knowledge but also offers a captivating spectacle for those in Siberia on this chilly evening.

Topics: Asteroids, Astronomy, Space Exploration

## Vocabulary List:

1. **Asteroid** /'æs.tə.rɔɪd/ (noun): A small rocky body that orbits the sun often found in the asteroid belt.
2. **Fireball** /'faɪə.bɔːl/ (noun): A bright meteor that explodes in the atmosphere.
3. **Forecasted** /fɔːr'kæstɪd/ (verb): Predicted or estimated a future event based on data.
4. **Unique** /juː'nɪ:k/ (adjective): Being the only one of its kind; unlike anything else.
5. **Collaboration** /kə,læb.ə'reɪ.fən/ (noun): The action of working with someone to produce something.
6. **Spectacle** /'spek.tə.kəl/ (noun): A visually striking performance or display.

## Comprehension Questions

### Multiple Choice

1. What is the approximate diameter of the small asteroid mentioned?

- Option: 20 centimetres
- Option: 50 centimetres
- Option: 70 centimetres
- Option: 100 centimetres



- 
2. Who forecasted the harmless event of the asteroid burning up in the atmosphere?
- Option: NASA
  - Option: European Space Agency
  - Option: ATLAS system
  - Option: Queen's University Belfast
3. How many predicted asteroid strikes on Earth were mentioned to have occurred this year?
- Option: One
  - Option: Two
  - Option: Three
  - Option: Four
4. What is the primary purpose of NASA and ESA programs mentioned in the text?
- Option: Land on asteroids
  - Option: Study alien life forms
  - Option: Monitor asteroids
  - Option: Travel to Mars
5. What was the system responsible for discovering the asteroid and providing early notice of potential impacts?
- Option: Hubble Space Telescope
  - Option: Mars Rover
  - Option: ATLAS system
  - Option: International Space Station
6. Which group is involved in collaborations with amateur astronomers for asteroid data collection?
- Option: NASA
  - Option: European Space Agency
  - Option: Queen's University Belfast
  - Option: Tata Group

### **True-False**

7. The asteroid event is described as harmful in the text.
8. Advancements in technology have made it easier to track smaller asteroids early on.
9. The asteroid mentioned in the text is the first predicted asteroid strike on Earth this year.



---

10. The European Space Agency has no programs for monitoring asteroids.

11. The event in Siberia is expected to occur in the morning.

12. Astronomers have no interest in studying asteroids up close.

### Gap-Fill

13. The asteroid mentioned was predicted by the European Space Agency, while it was discovered by NASA's ATLAS system, designed to provide up to a week's notice of potential impacts. This event not only contributes to scientific knowledge but also offers a captivating spectacle for those in Siberia on this chilly

\_\_\_\_\_.

14. According to Professor Alan Fitzsimmons from Queen's University Belfast, such occurrences offer a unique opportunity for astronomers to study these objects up close. This particular asteroid, named COWEPC5, is the fourth predicted asteroid strike on Earth this \_\_\_\_\_.

15. With advancements in technology, we can now detect and track smaller asteroids early on, allowing for further research and potential deflection strategies in the \_\_\_\_\_.

16. NASA and ESA have dedicated programs for monitoring asteroids, including collaborations with amateur astronomers for data \_\_\_\_\_.

17. The harmless event of the asteroid burning up in the atmosphere has been forecasted by the \_\_\_\_\_.

18. The asteroid was discovered by NASA's ATLAS system, designed to provide up to a \_\_\_\_\_ notice of potential impacts.



## Answer

**Multiple Choice:** 1. 70 centimetres 2. European Space Agency 3. Four 4. Monitor asteroids 5. ATLAS system 6. NASA

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

**Gap-Fill:** 13. evening 14. year 15. future 16. collection 17. European Space Agency 18. week's

## Vocabulary quizzes

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

1. What small rocky object orbits the sun?

- Option: Meteorite
- Option: Asteroid
- Option: Fireball
- Option: Fragment

2. What is the result of an object hitting another object with great force?

- Option: Collaboration
- Option: Impact
- Option: Settlement
- Option: Insights

3. What term relates to the application of scientific knowledge for practical purposes?

- Option: Fluorescent
- Option: Technological
- Option: Meteorite
- Option: Marangoni

4. What term describes something causing great harm or damage?

- Option: Evoke
- Option: Destructive
- Option: Secreting
- Option: Revolutionize

5. What term relates to hot water rising from the Earth's interior?



- Option: Tensions
- Option: Hydrothermal
- Option: Marangoni
- Option: Fragment

6. What describes something that is at a higher level than others?

- Option: Forecasted
- Option: Advanced
- Option: Spectacle
- Option: Propelling

7. What involves two or more people working together towards a shared goal?

- Option: Claims
- Option: Enhance
- Option: Collaboration
- Option: Interpret

8. What term means being the only one of its kind?

- Option: Unique
- Option: Abundant
- Option: Deceptively
- Option: Insights

9. What term describes something made or produced by human beings rather than occurring naturally?

- Option: Propelling
- Option: Artificial
- Option: Tensions
- Option: Fragment

10. What term means producing and discharging a substance such as a hormone from a cell or gland?

- Option: Revolutionize
- Option: Secreting
- Option: Marangoni
- Option: Tensions

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

11. A \_\_\_\_\_ is a very bright meteor that may be seen even in daylight.

12. The weatherman \_\_\_\_\_ heavy rain for tomorrow.



13. The movie's soundtrack managed to \_\_\_\_\_ strong emotions in the audience.
14. The \_\_\_\_\_ effect is the mass transfer along an interface between two fluids due to surface tension gradient.
15. The engine works by \_\_\_\_\_ the vehicle forward.
16. The new technology aims to \_\_\_\_\_ the way we communicate with each other.
17. The agreement resulted in a \_\_\_\_\_ between the two parties.
18. The political debate led to increased \_\_\_\_\_ among the members of the council.
19. The research study provided valuable \_\_\_\_\_ into the behavior of the target demographic.
20. The explosion caused the rock to \_\_\_\_\_ into smaller pieces.

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

21. New technologies and scientific discoveries contribute to societal progress.
22. The study of rocks minerals and Earth's structure falls under this branch of science.
23. Resources that are plentiful and widely available.
24. The process of systematically examining a matter to uncover facts and details.
25. Statements made by individuals asserting that something is true.
26. Emitting light as a result of absorption of radiation from another source.
27. Having an appearance that misleads or gives a false impression.
28. A solid piece of debris from an object such as a comet or asteroid that survives its passage through the Earth's atmosphere.
29. To improve the quality value or attractiveness of something.



30. An event or scene that is visually striking or impressive.

## Answer

**Multiple Choice:** 1. Asteroid 2. Impact 3. Technological 4. Destructive 5. Hydrothermal 6. Advanced  
7. Collaboration 8. Unique 9. Artificial 10. Secreting

**Gap-Fill:** 11. Fireball 12. forecasted 13. evoke 14. Marangoni 15. propelling 16. revolutionize 17. settlement  
18. tensions 19. insights 20. fragment

**Matching sentence:** 1. Advancements 2. Geological 3. Abundant 4. Investigations 5. Claims 6. Fluorescent  
7. Deceptively 8. Meteorite 9. Enhance 10. Spectacle

## CATEGORY

1. Sci/Tech - LEVEL3

### Date Created

2024/12/04

### Author

aimeeyoung99

ESL-NEWS.COM