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# Asteroid 'God of Chaos' to Pass Near Earth in Three Years

## Description

An asteroid called Apophis will pass near Earth in three years. This event is important because it gives scientists a chance to study this large space rock closely. Apophis will fly by Earth on April 13, 2029, and come within about 20,000 miles of the surface. This distance is closer than many satellites, which orbit about 22,000 miles away.

Scientists say Apophis is "a potentially hazardous asteroid," but NASA has assured everyone that it will not hit Earth during this close approach. After careful monitoring, experts believe there is no risk of an impact for at least 100 years.

People in the Eastern Hemisphere will have the chance to see Apophis with their own eyes, depending on the weather. Rarely does an asteroid this big come so close. NASA estimates that such events happen only once every few thousand years. This will be the first time Apophis will be closely observed with modern technology.

During its flyby, Earth's gravity might cause small changes on the asteroid's surface. Scientists think Apophis is made of materials from the early solar system that never formed into planets. Apophis is about 1,115 feet wide, similar to three football fields. It was first discovered in 2004 by astronomers in Arizona.

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## Vocabulary List:

1. **asteroid** //ˈæs.tə,rɔɪd// (noun): a small rocky body that moves in space
2. **hazardous** //ˈhæzərdəs// (adjective): likely to cause harm or danger
3. **orbit** //ˈɔrbɪt// (verb): to move around a planet or star
4. **monitoring** //ˈmɒnɪtərɪŋ// (noun): watching something carefully to notice changes
5. **impact** //ˈɪmpækt// (noun): a sudden strong effect or collision
6. **gravity** //ˈgrævɪti// (noun): the force that pulls objects toward each other

## Comprehension Questions

### Multiple Choice

1. What is the date when Apophis will fly by Earth?



- Option: April 13, 2029
- Option: March 15, 2028
- Option: May 22, 2030
- Option: January 1, 2029

2. How far will Apophis come from the Earth's surface during its flyby?

- Option: 10,000 miles
- Option: 20,000 miles
- Option: 30,000 miles
- Option: 22,000 miles

3. How wide is Apophis?

- Option: 1,000 feet
- Option: 1,115 feet
- Option: 1,200 feet
- Option: 1,500 feet

4. In which year was Apophis first discovered?

- Option: 2000
- Option: 2004
- Option: 2010
- Option: 2015

5. What do scientists call Apophis?

- Option: A harmless rock
- Option: A potentially hazardous asteroid
- Option: A satellite
- Option: A comet

6. How often do close approaches of large asteroids happen, according to NASA?

- Option: Once a year
- Option: Once every few days
- Option: Once every few hundred years
- Option: Once every few thousand years

### True-False

7. NASA believes that Apophis will hit Earth during its close approach.



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8. Apophis will pass Earth at a distance further than many satellites.
  9. The flyby of Apophis offers a rare opportunity to study the asteroid.
  10. Apophis is about the width of two football fields.
  11. Earth's gravity might affect the surface of Apophis during the flyby.
  12. People in the Western Hemisphere will be able to see Apophis clearly.

### Gap-Fill

13. Apophis is estimated to come within \_\_\_\_\_ miles of the Earth's surface.
14. The flyby of Apophis will take place on April 13, \_\_\_\_\_
15. Apophis was first discovered in \_\_\_\_\_ by astronomers in Arizona.
16. Scientists consider Apophis to be a \_\_\_\_\_ hazardous asteroid.
17. Apophis is about \_\_\_\_\_ feet wide, which is similar to three football fields.
18. NASA estimates that large asteroid close approaches occur only once every \_\_\_\_\_ years.

### Answer

**Multiple Choice:** 1. April 13, 2029 2. 20,000 miles 3. 1,115 feet 4. 2004 5. A potentially hazardous asteroid  
6. Once every few thousand years

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

**Gap-Fill:** 13. 20,000 14. 2029 15. 2004 16. potentially 17. 1,115 18. few thousand

### Vocabulary quizzes

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



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1. What do satellites primarily monitor in Earth's orbit?
    - Option: Weather patterns
    - Option: Wildlife
    - Option: Urban development
    - Option: Cultural trends
  
  2. Which type of asteroids are considered potentially dangerous?
    - Option: Minor asteroids
    - Option: Hazardous asteroids
    - Option: Rocky asteroids
    - Option: Gas giants
  
  3. What force keeps satellites in orbit around the Earth?
    - Option: Friction
    - Option: Electromagnetism
    - Option: Gravity
    - Option: Momentum
  
  4. What term is used for a collection of data typically used for analysis?
    - Option: Database
    - Option: Dataset
    - Option: Spreadsheet
    - Option: Report
  
  5. What do astronomers often celebrate as a significant achievement in their field?
    - Option: Exploration
    - Option: Discovery
    - Option: Innovation
    - Option: Evolution
  
  6. What is a software that mimics the hardware or software environment called?
    - Option: Simulator
    - Option: Emulator
    - Option: Interpreter
    - Option: Compiler
  
  7. What term describes the collision of celestial bodies, often resulting in a significant event?
    - Option: Collision
    - Option: Impact
    - Option: Drift
    - Option: Passage



8. What is the unit of measurement for a very large amount of data, often used in datasets?

- Option: Gigabytes
- Option: Terabytes
- Option: Petabytes
- Option: Megabytes

9. What is the path called that a celestial body follows around another?

- Option: Sphere
- Option: Orbit
- Option: Radius
- Option: Axis

10. Who are the individuals primarily responsible for creating software applications?

- Option: Users
- Option: Analysts
- Option: Developers
- Option: Managers

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

11. The \_\_\_\_\_ ruins were discovered during the archaeological survey.

12. The \_\_\_\_\_ community has greatly contributed to the cultural landscape of the city.

13. Over the centuries, the continents have \_\_\_\_\_ apart due to tectonic activity.

14. Scientists use technology to \_\_\_\_\_ changes in the environment.

15. The \_\_\_\_\_ of the company's assets was conducted by financial analysts.

16. The new software \_\_\_\_\_ has attracted many customers.

17. The results of the national \_\_\_\_\_ indicated a need for more infrastructure.

18. The software has been \_\_\_\_\_ to improve its performance.

19. The game developers created a demo version that is \_\_\_\_\_ on multiple platforms.

20. The team's findings were \_\_\_\_\_ by independent researchers.



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

21. Satellites travel in a predetermined orbit around the Earth.
22. The discovery of a new galaxy expanded our understanding of the universe.
23. Astronomers can detect asteroids that are on a collision course with Earth.
24. Some asteroids are classified as hazardous due to their size and proximity to Earth.
25. Astronomers study celestial bodies to better understand the universe.
26. Gravity is the force that binds celestial bodies in space.
27. Developers continuously update software to enhance user experience.
28. A large dataset can contain petabytes of information about different phenomena.
29. The latest research study generated petabytes of data for analysis.
30. A proper valuation of assets is crucial for investment decisions.

**Answer**

**Warning:** Undefined array key "answer" in **/home/u750883576/domains/esl-news.com/public\_html/wp-content/plugins/gpt-post-quiz/includes/admin/forms/gpoq-post-pdf-questions.php** on line **531**

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**Multiple Choice:** 1. Weather patterns 2. Hazardous asteroids 3. Gravity 4. Dataset 5. Discovery 6. Emulator 7. Impact 8. Petabytes 9. Orbit 10. Developers

**Gap-Fill:** 11. ancient 12. immigrant 13. drifted 14. detect 15. valuation 16. offering 17. survey 18. updated 19. playable 20. confirmed

**Matching sentence:** 1. 2. 3. 4. 5. 6. 7. 8. 9. 10.

## CATEGORY

1. Sci/Tech - LEVEL2

## POST TAG

1. asteroid
2. close to Earth
3. ESL learning
4. esl news
5. god of chaos
6. Level 2

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**Author**

aimeeyoung99

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