



2032: Tunguska Impact Risk Doubles – ScienceAlert

Description

In late 2024, astronomers saw a new asteroid in the sky. They named it 2024 YR4 because it was the 117th asteroid found in December 2024. It has a 2.3% chance of hitting Earth on December 22, 2032. This might sound like a movie, but it's not unusual.

The asteroid's orbit is tricky to predict due to gravitational pulls. It will come close to Earth in 2028, allowing astronomers to make accurate measurements. Even if it is likely to hit Earth, there is no need to panic.

We have time to deal with the asteroid, and it's not big enough to end the world. Evacuation plans can minimize the risk if it hits a populated area. The odds of impact may change, but experts believe they will go down to zero eventually.

Check NASA's Planetary Defense Page for updates on the asteroid. Remember, early calculations can change, so it's best to stay informed.

Original article from [Universe Today](#). Read the [original article](#).

Vocabulary List:

1. **Asteroid** /'æs.tə.rɔɪd/ (noun): A small rocky body orbiting the sun typically found in the asteroid belt between Mars and Jupiter.
2. **Orbit** /'ɔːr.bɪt/ (noun): The curved path of a celestial object around a star planet or moon.
3. **Gravitational** /,ɡræv.ɪ'teɪ.ʃən.əl/ (adjective): Relating to the force that attracts objects toward one another based on their mass.
4. **Evacuation** /ɪ,væk.ju'eɪ.ʃən/ (noun): The act of leaving a place in order to escape from a dangerous situation.
5. **Impact** /'ɪm.pækt/ (noun): The action of one object coming forcibly into contact with another.
6. **Minimize** /'mɪn.ɪ.maɪz/ (verb): To reduce something to the smallest possible amount or degree.

Comprehension Questions

Multiple Choice

1. What did astronomers name the new asteroid discovered in late 2024?



- Option: 2024 YR1
- Option: 2024 YR2
- Option: 2024 YR3
- Option: 2024 YR4

2. What is the chance of the asteroid hitting Earth on December 22, 2032?

- Option: 1.5%
- Option: 2.3%
- Option: 3.8%
- Option: 5.1%

3. When is the asteroid expected to come close to Earth for accurate measurements?

- Option: 2025
- Option: 2026
- Option: 2027
- Option: 2028

4. What can minimize the risk if the asteroid hits a populated area?

- Option: Evacuation plans
- Option: Building shelters
- Option: Launching missiles
- Option: Praying for safety

5. Where can you find updates on the asteroid mentioned in the article?

- Option: SpaceX website
- Option: NASA's Planetary Defense Page
- Option: European Space Agency (ESA) portal
- Option: Astronomy.com

6. What do experts believe will happen to the odds of impact eventually?

- Option: They will increase
- Option: They will remain the same
- Option: They will fluctuate
- Option: They will go down to zero eventually

True-False

7. The astronomers discovered the 117th asteroid in late 2024.



8. The asteroid is big enough to end the world if it hits Earth.
9. According to the article, the asteroid is not unusual in terms of potential impact.
10. Early calculations about the asteroid can never change.
11. Astronomers are unable to predict the asteroid's orbit accurately due to gravitational pulls.
12. The article advises staying informed about the asteroid by checking NASA's Planetary Defense Page.

Gap-Fill

13. What is the chance of the asteroid hitting Earth on December 22, 2032? _____ %
14. NASA's Planetary Defense Page provides updates on the _____ mentioned in the article.
15. Even if the asteroid is likely to hit Earth, there is no need to _____.
16. According to experts, the odds of impact will go down to _____ eventually.
17. The asteroid will come close to Earth in _____, allowing accurate measurements.
18. Evacuation _____ can minimize the risk if the asteroid hits a populated area.

Answer

Multiple Choice: 1. 2024 YR4 2. 2.3% 3. 2028 4. Evacuation plans 5. NASA's Planetary Defense Page 6. They will go down to zero eventually

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

Gap-Fill: 13. 2.3 14. asteroid 15. panic 16. zero 17. 2028 18. plans

Vocabulary quizzes

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



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1. Who are scientists who study celestial objects like stars planets and galaxies?
Option: Biologists
Option: Meteorologists
Option: Astronomers
Option: Geologists
 2. Which state of matter has a definite volume but takes the shape of its container?
Option: Solid
Option: Gas
Option: Liquid
Option: Plasma
 3. What are medications used to treat bacterial infections called?
Option: Painkillers
Option: Vitamins
Option: Antibiotics
Option: Antihistamines
 4. What force is responsible for keeping planets in orbit around the sun?
Option: Magnetic
Option: Nuclear
Option: Gravitational
Option: Frictional
 5. Which type of radiation has a wavelength just shorter than that of visible light?
Option: Infrared
Option: Ultraviolet
Option: X-ray
Option: Gamma-ray
 6. The process of growth maturation and change in living organisms is known as what?
Option: Decay
Option: Development
Option: Stagnation
Option: Destruction
 7. What is the term for a general decline in mental ability severe enough to interfere with daily life?
Option: Depression
Option: Anxiety
Option: Dementia
Option: Paranoia



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8. What product can be applied to the skin to protect it from the harmful effects of the sun?
- Option: Body lotion
 - Option: Sunscreen
 - Option: Perfume
 - Option: Makeup
9. What term is used to describe the effect or influence of one thing on another?
- Option: Collision
 - Option: Impact
 - Option: Avoidance
 - Option: Detachment
10. What is the systematic investigation into and study of materials and sources to establish facts and reach new conclusions?
- Option: Guesswork
 - Option: Research
 - Option: Imagination
 - Option: Supposition

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

11. A _____ planet is one that has conditions suitable for life to exist.
12. _____ variants can play a role in the development of regulating disorders.
13. Excessive exposure to ultraviolet _____ can cause skin cancer.
14. In case of a gravitational impact it is crucial to have a plan for _____ to minimize risk.
15. A new asteroid was _____ in orbit around Jupiter.
16. Antibiotics are often used to treat bacterial infections that cause _____.
17. People with light sensitivity may benefit from wearing _____ glasses.
18. _____ trials are essential in the development of new vaccines.
19. The asteroid's _____ orbit indicated its potential to come close to Earth.
20. One way to reduce damage from solar radiation is to _____ exposure to the sun.



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

21. Scientists conducted extensive to understand the effects of the new medication.
22. An is a small rocky body that orbits the sun often found in the asteroid belt.
23. The moon stays in orbit around Earth due to the pull between the two celestial bodies.
24. A is a biological preparation that helps develop immunity to a specific disease.
25. Water is a common example of a substance that flows and takes the shape of its container.
26. Doctors prescribe to treat bacterial infections and prevent their spread.
27. Genetic can lead to different expressions of traits within a population.
28. As individuals age the risk of developing and other cognitive disorders increases.
29. Applying before going out in the sun can help protect your skin from UV rays.
30. Swelling redness and pain are common symptoms of caused by infections or injuries.

Answer

Multiple Choice: 1. Astronomers 2. Liquid 3. Antibiotics 4. Gravitational 5. Ultraviolet 6. Development
7. Dementia 8. Sunscreen 9. Impact 10. Research

Gap-Fill: 11. Habitable 12. Genetic 13. Radiation 14. Evacuation 15. Discovered 16. Inflammation 17. Tinted
18. Clinical 19. Astronomical 20. Minimize

Matching sentence: 1. Research 2. Asteroid 3. Gravitational 4. Vaccine 5. Liquid 6. Antibiotics 7. Variants
8. Dementia 9. Sunscreen 10. Inflammation

CATEGORY

1. Health - LEVEL2

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