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Keep up to date with the latest daily buzz with the BuzzFeed Daily newsletter! AN ASTEROID called the God of Chaos is gaining speed as it hurtles toward Earth, experts believe. Peanut-shaped space rock Apophis is waver on a potential collision course with our planet in 2068. There are 100 possible collisions between Apophis and Earth over the next centuryCredit: Getty - An associate if it strikes could unleash an explosion equivalent to 1,200 million tons of TNT or about 80,000 nuclear bombs in Hiroshima. Astronomers were convinced that Apophis, named after the Egyptian god of chaos, would miss Earth. But now, they've discovered it's wobbling out of its path and accelerating as it does so. And the latest calculations put the chance of hitting us, causing global devastation, at just one in 150,000 - about a third of the chance of being struck by lightning. These images were taken in 2012Credit: NASA/JPL/Caltech Astronomer Dr. Dave Tholen said: The asteroid is moving away from a purely gravitational orbit by about 170 meters per year, enough to keep the 2068 impact scenario in play. Apophis was discovered in 2004. It is about 1,200 feet long, making it several metres larger than the Shard, Britain's tallest building. By contrast, the asteroid or comet that struck Earth 66 million years ago, wiping out 75 percent of species, including dinosaurs, was up to 50 miles wide. Astronomers have confirmed that the asteroid accelerated on its way to EarthCredit: UH/A At first astronomers said there was a 2.7 percent risk that Apophis would hit Earth in 2029. Further data then suggested it would pass within a 19,794-mile range at the end of this decade. Now, University of Hawaii astronomers have April 12, 2068, in their diaries as the day of the collision. They found that its course was influenced by a phenomenon known as the Yark effect. This occurs as the asteroid absorbs and then radiates the heat of the sun. However, this does not happen evenly - and the side on which it radiates more heat gets an additional thrust that throws the asteroid off a course set by gravitational force. Dr Tholen, who discovered Apophis, said: It's such a small force that it's not visible to larger objects, but the smaller the object, the easier it is to detect the effect. As it passes by Earth, it can be further thrown off course by the planet's own gravitational pull. Here's what you need to know, according to Nasa... Asteroid: An asteroid is a small rocky body orbiting the sun. Most are located in the asteroid belt (between Mars and Jupiter), but can be found anywhere (including the path that can hit Earth) Meteoroid: When two asteroids are hit, the small pieces that break off are called meteoroids Meteor: If a meteoroid enters the Earth's atmosphere, it begins to evaporate and then becomes a meteorite. On Earth, it will look like a series of lights in The sky, because the rock burns meteorite: If the meteoroid does not completely evaporate and survives the journey through the Earth's atmosphere, it can land on Earth. At that moment it becomes a meteorite comet: Like an asteroid, a comet orbits the sun. However, instead of being mostly made of rock, the comet contains a lot of ice and gas, which can result in incredible tails forming behind them (thanks to the evaporation of ice and dust) Stunning images of earth taken from the ISS in 2020. Reveal NasaWatch 'Quantarids' fireballs soar this week in 2021 the first meteor showerEagle-eyed space fans spotted a UFO flying past the ISS in the 'best sighting' of 2020Great Conjunction as it happened: See how Jupiter & Saturn 'almost touched' The Milky Way 'riddled with dead extraterrestrial civilizations' - and scientists know whereRobert Pattinson was named the most beautiful man in the world by scientists Asteroids of Apophis's size are reckoned to hit Earth about once every 80,000 years. While the chances of a strike are still about 25 times more likely than being eaten by a shark, there is no room for panic yet. Dr. Tholen believes that the real chances of impact in 2068 are what do you think of the asteroid 'God of Chaos'? Let us know in the comments... NASA animation reveals Apophis Asteroid's closest approach to Earth We pay for your stories! Do you have a story for The Sun Online Tech & Science team? Send us an email tech@the-sun.co.uk the imposing asteroid Apophis is the third largest space rock currently monitored by NASA's automated warning systems. NASA estimates that Apophis measures about 1,214ft (370m) across, making it potentially cataclysmic threats to Earth. A 2018 White House report on the dangers posed by asteroids found objects to this extent are threatening regional to continental damage on impact. If asteroid Apophis reached the skies above Earth today, the brute force of impact would likely kill unspeakable millions of people. In an attempt to protect our planet from doomsday scenarios, NASA is keeping a watchful eye on the asteroid's trajectory. As a result, the US space agency has set 10 dates at which there is the highest risk of deadly impact. If Apophis eventually hits the planet on any of these dates, NASA said the force of the impact would equal 1,200 megatons or 1,200,000 kilotons of kinetic energy. By comparison, US atomic bomb dropped on Hiroshima in 1945 READ MORE: Asteroid larger than Big Ben barrels toward Earth Asteroid Apophis this week: NASA estimates 10 dates on which the rock God of Chaos could hit Earth (Picture: GETTY) Asteroid Apophis: A colossal asteroid was discovered on March 19, 2015. As of June 30, 20014 (Image: UH/A)At the point of atmospheric entry, the asteroid would then accelerate to about 12.62 km per second or 28,230mph (45,532km/h). By observing Apophis during the 2029 flyby, we will get important scientific insightsPaul NASA's Near-Earth Studies CenterAs NASA's Sentry tracking systems, Asteroid Apophis weighs a whopping 67,240,989 tons (6,100,000 kilograms). Due to its enormous size, speed and proximity to Earth, Apophis has been officially named by astronomers as a potentially dangerous asteroid, or PHA. The space rock was first discovered on June 19, 2004, and astronomers initially feared Apophis might hit Earth during a close flyby in 2029. The possibility of impact has been ruled out for that year but there are 10 possible strike dates left. DON'T MISS THE DANGER: 100% impact safety warns space expert [INTERVIEW]People will struggle to survive supervolcano eruption [ANALYSIS]Britain could be hit by monstrous tsunami [COMMENT] Asteroid Apophis: Fast facts about asteroids and others Space rocks (Image: GETTY/EXPRESS)The asteroid is named after the ancient Egyptian God of Chaos – the Great Serpst Apophis.Even South African billionaire and SpaceX founder Elon Musk has expressed concern about the possibility of an asteroid impact Earth.In. On August 30 this year, Mr Musk took to Twitter where he told his millions of followers that a large rock would eventually hit Earth and we currently have no defence. Then on November 14th he also ominously revitalised the predicted trajectory map of asteroid Apophis that nearly disappeared earth in 2029. Asteroid Apophis: Elon Musk has shown interest in flybbying a large asteroid (Picture: TWITTER) Asteroid Apophis: Space Rock is named after the Egyptian God chaos Apopphis (Picture: GETTY)In other words, there is a 0.00010 percent chance of impact or a 99.9999999 chance that the asteroid will miss. There's a slightly higher chance of impact in 2065 with NASA giving asteroid prospects of about one in 3.8 million. The odds translate to a 0.00026 percent chance of impact or a 99.999974 chance that the space rock will miss. However, NASA's overall outlook for the next 100 years is a much scarier one in 110,000. Asteroid Apophis: Four space rocks with little chance of hitting Earth in due course (Image: GETTY/EXPRESS)This means Apophis has a 0.00089 percent chance of hitting the planet by 2103.13 As of April 31, 2029, the asteroid will approach our planet. NASA asteroid expert Paul Chodas said: Apophis is representative of about 2,000 currently known potentially hazardous asteroids. By observing Apophis during the 2029 flyby, we will gain important scientific insights that could one day be used for planetary defense. According to the Planetary Society, you shouldn't lose sleep because of the risk of an asteroid impact. Although there is currently no object flying towards our planet, astronomers have devised potential timelines for future impacts based on past events. On average, 100 tons of space debris and dust hits the planet's atmosphere every day. About 30 small asteroids the size of several meters hit the planet once a year. Larger space rocks strike even less frequently, at once every from years to once every few thousand years. The Planetary Society said: Jumping to much, much larger sizes, a dinosaur-sized asteroid - and 70 percent of species on Earth - killers at 10 kilometers the size of impacts based on time scales over 100 million years ago. 1. More than 100 tons of asteroid material, grains the size of sand and tiny meteors hit earth's atmosphere every day.2. Asteroids are the remaining building blocks of the solar system of 4.6 billion years.3. NASA created its own artificial asteroids by sending the spent upper stages of Apollo rockets into orbit around the sun.4. From time to time, the asteroid will shoot past Earth closer to the moon's orbit.5. The so-called weak asteroids are the remains of comets that have completely lost their icy outer layers. Layers.

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