

# Astronomy through practical investigations

## no 16 answers

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**What are the biggest questions in astronomy?**

**What are the biggest unanswered questions in astronomy?** "Will the Universe end?" is one of the biggest, and perhaps most important, questions about the Universe. Whether the Universe will exist forever or in some way 'end' depends on its rate of expansion, the average density of matter, and the fractions of matter, dark matter and dark energy it contains.

**What does astronomy investigate?** Astronomy is the study of everything in the universe beyond Earth's atmosphere. That includes objects we can see with our naked eyes, like the Sun , the Moon , the planets, and the stars . It also includes objects we can only see with telescopes or other instruments, like faraway galaxies and tiny particles.

**What is the hardest thing to learn in astronomy?** What's the hardest thing to explain about the universe? Neil: The hardest thing, I think by far, is how we analyze spectra — light broken up into its component colors. It's so abstract, so removed from the actual object we're studying.

**What is the hardest question in astrophysics?**

**What was the strangest thing found in space?**

**What is the rarest thing to happen in space?**

**What questions scientists still can't answer?** Is it the passing of one moment to the next? Is it the past or the future? We're still not sure, exactly, what time means.

We're also not sure whether it is fundamental (a property of the universe) or emergent (something that arises from an event).

**Who is the creator of the universe?** The Hindus consider Lord Brahma as the Creator of the Universe. Along with Lord Vishnu and Lord Shiva, he forms the Holy Trinity. As creation is the work of the mind and the intellect, Lord Brahma symbolises the Universal Mind. From the standpoint of an individual, he symbolises one's own mind and intellect.

**What is the highest salary of an astronomer?**

**What does a real star look like?**

**What is the rarest thing known to man?** Kyawthuite, a mineral, is the rarest thing in the world. With the chemical formula  $\text{Ca}(\text{B}_3\text{O}_3(\text{OH})_5)(\text{OH})_2 \cdot \text{H}_2\text{O}$ , it is a borate mineral that was first discovered in 1953 in the Mogok region of Myanmar (formerly Burma).

**What is the rarest thing in the universe?** The rarest naturally occurring element in the known universe is astatine. Astatine is a radioactive element with the symbol At and atomic number 85. It is found in trace amounts on Earth, primarily as a decay product of heavier elements.

**What is the rarest molecule in the universe?** Astatine is the rarest naturally occurring element. The total amount of astatine in the Earth's crust (quoted mass  $2.36 \times 10^{25}$  grams) is estimated by some to be less than one gram at any given time.

**What is the hardest planet to study?** Difficult to observe Out of the five planets known since ancient times as the 'wandering stars', Mercury is the one least explored.

**Is our universe ending?** The fate of the universe may be determined by its density. The preponderance of evidence to date, based on measurements of the rate of expansion and the mass density, favors a universe that will continue to expand indefinitely, resulting in the "Big Freeze" scenario below.

**What is 42 in astrophysics?** And 42 is the expansion rate of the entire Universe, in miles-per-second-per-megaparsec.

**What is the deadliest thing in space?** Gamma-Ray Bursts A gamma-ray burst (GRB) is a brief but intense flash of gamma rays, the most energetic form of electromagnetic radiation. GRBs are thought to be caused by the collapse of massive stars into black holes, or the merger of two neutron stars or black holes.

**What is the rarest thing to see in space?**

**What is the most mysterious thing in the universe?** Dark matter, a mysterious and invisible form of matter, constitutes 85% of the total mass of the universe. Despite its prevalence, its composition and origin remain unknown.

**What is the rarest thing to happen?** The rarest thing to ever happen is that the universe exists exactly as it does at this very moment (and by an information-theoretic argument, consequently had all of its events leading up to this moment happen exactly as they did).

**What is the rarest astronomical phenomenon?** Only two planets appear to transit the sun as seen from Earth—Mercury and Venus, the two inner planets. Although no one alive will likely see the next Transit of Venus—due in 2117 and 2125—a Transit of Mercury is on the cards.

**What astronomical events will happen in 2024?**

**What is the largest thing in astronomy?** The biggest single entity that scientists have identified in the universe is a supercluster of galaxies called the Hercules-Corona Borealis Great Wall. It's so wide that light takes about 10 billion years to move across the entire structure. For perspective, the universe is only 13.8 billion years old.

**What are 3 topics studied in astronomy?** stellar dynamics and evolution. galaxy formation. large-scale distribution of matter in the Universe. the origin of cosmic rays.

**What is the biggest threat to astronomy?** Artificial light pollution here on Earth poses more of a threat to ground-based astronomy than even the next generation of

commercial satellite constellations, says a prominent Chilean astrophysicist.

### **What are 5 facts about astronomy?**

**What is the hottest thing in the universe?** The hottest objects in the universe are believed to be the cores of stars, particularly during their final stages of life. The core of a massive star during its supernova phase can reach temperatures of around 100 billion Kelvin (100 billion degrees Celsius, or 180 billion degrees Fahrenheit).

**What is the smallest thing in the universe?** Protons and neutrons can be further broken down: they're both made up of things called "quarks." As far as we can tell, quarks can't be broken down into smaller components, making them the smallest things we know of.

**How many Earths can fit in a black hole?** The supermassive black hole at the center of the Milky Way galaxy is called Sagittarius A. It has a mass equal to about 4 million suns and would fit inside a very large ball that could hold a few million Earths.

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**What is the dark energy in astronomy?** Think of dark energy as the "evil counterpart" to gravity—an "anti-gravity" force providing a negative pressure that fills the universe and stretches the very fabric of spacetime. As it does so dark energy drives cosmic objects apart at an increasingly rapid rate rather than drawing them together as gravity does.

**What is black energy?** Right now, dark energy is just the name that astronomers gave to the mysterious "something" that is causing the universe to expand at an accelerated rate. Dark energy has been described by some as having the effect of a negative pressure that is pushing space outward.

**Which asteroid will hit Earth in 2024?** An asteroid which measures more than 250 feet in diameter, the same size as that of Statue of Liberty, is hurtling towards earth at a very high speed. This asteroid, named Asteroid 2024 MT1, is expected to pass

by earth on July 8,2024. NASA had earlier issued an alert for this giant space rock.

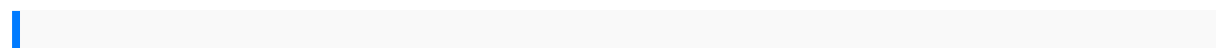
**What will happen to Earth in 2025?** EXCLUSIVE Scientist warns more powerful solar eruptions could hit Earth in 2025 - and cause the worst geomagnetic storm in 165 years. While Earth mostly succeeded in weathering last weekend's strong solar storm, experts have warned more powerful eruptions could continue to strike until 2025.

**What asteroid will hit the Earth in 2036?** In 2036, Apophis will pass the Earth at a third the distance of the Sun in both March and December. Using the 2021 orbit solution, the Earth approach on March 27, 2036, will be no closer than 0.3089 AU (46.21 million km; 28.71 million mi; 120.2 LD), but more likely about 0.3097 AU (46.33 million km; 28.79 million mi).

**Why can't you stand on Uranus?** As an ice giant, Uranus doesn't have a true surface. The planet is mostly swirling fluids. While a spacecraft would have nowhere to land on Uranus, it wouldn't be able to fly through its atmosphere unscathed either. The extreme pressures and temperatures would destroy a metal spacecraft.

**Why is space silent?** Space is a vacuum Sound is carried by atoms and molecules. In space, with no atoms or molecules to carry a sound wave, there's no sound. There's nothing to get in sound's way out in space, but there's nothing to carry it, so it doesn't travel at all.

**What's one fact about the universe that blows your mind?** The universe has no centre and is constantly expanding (getting bigger) every second – making it impossible to reach the edge.



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