

Astronomy test questions and answers

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What questions do astronomers try to answer?

What are the general questions about astronomy? How do the planets stay in orbit around the sun? How did the planets get their names? How many planets in the Solar System have rings? Why are all of the planets round?

What is the hardest question about space? "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.

Which four letter word beginning with n is a star showing a sudden large increase in brightness then gradually returning to its original state over a period of weeks to years? A nova (pl. novae or novas) is a transient astronomical event that causes the sudden appearance of a bright, apparently "new" star (hence the name "nova", Latin for "new") that slowly fades over weeks or months.

Which planet has no moon? Mercury and Venus are the only planets in our solar system without moons (i.e. they do not have any natural satellite).

What is the hottest planet? Venus' thick atmosphere traps heat creating a runaway greenhouse effect – making it the hottest planet in our solar system with surface temperatures hot enough to melt lead. The greenhouse effect makes Venus roughly 700°F (390°C) hotter than it would be without a greenhouse effect.

What is the hardest thing in astronomy? Neutron star crust is the strongest material in the universe, and a teaspoon of this superlative matter would weigh 5

tons if brought to Earth's surface. This immense strength means that neutron star crusts can't be modeled with typical fluid dynamics models that don't take material strength into account.

What are 3 topics studied in astronomy? Among the objects studied are galaxies, stars, planets, exoplanets, the interstellar medium and the cosmic microwave background; and the properties examined include luminosity, density, temperature, and chemical composition.

What are 5 things astronomers study? Astronomers study planets, stars, and other celestial bodies. They use ground-based equipment, such as optical telescopes, and space-based equipment, such as the Hubble Space Telescope. Some astronomers study distant galaxies and phenomena such as black holes and neutron stars.

What is the rarest space thing? ESA explained in an X post: "The 2029 flyby is an incredibly rare event. By comparing impact craters across the Solar System with the sizes and orbits of all known asteroids, scientists believe that an asteroid as large as Apophis only comes this close to Earth once every 5,000 to 10,000 years."

What are 5 questions about the Solar System?

What are crazy facts about space?

Which planet has the most moons? But it's the gas giants that have the most moons. Jupiter boasts 95 moons but Saturn has more moons than Jupiter, with a staggering 146 confirmed so far. So which planet has the most moons? The answer is Saturn.

What is a star that suddenly increases in brightness? Figure 21.1 A nova is a star that suddenly increases enormously in brightness, then slowly fades back to its original luminosity. Novae are the result of explosions on the surfaces of faint white-dwarf stars, caused by matter falling onto their surfaces from the atmosphere of a larger binary companion.

What is formed if the star is very massive or big enough? If the star which explodes is especially large, it can even form a black hole.

What does astronomy answer? 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 do astronomers solve? Some astronomers study distant stars, galaxies, and phenomena such as neutron stars and black holes, and others monitor space debris that could interfere with satellite operations. Many physicists and astronomers work in basic research with the aim of increasing scientific knowledge.

What are astronomers trying to figure out? Astronomers study planets, stars, and other celestial bodies. They use ground-based equipment, such as optical telescopes, and space-based equipment, such as the Hubble Space Telescope. Some astronomers study distant galaxies and phenomena such as black holes and neutron stars.

What are questions that cosmology seeks to answer? Cosmologists seek answers to questions about the Universe as a whole. Some of the questions are simple ones that can be grasped by all human beings – When did the Universe begin? How will it end? What is our place in this Universe?

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