

Astronomy through practical investigations

answer key

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What is the hardest question in astronomy?

What questions does astronomy answer?

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.

Is astronomy a lot of math? In astronomy we use algebra, calculus, statistics and probability, but also trigonometry and logarithms to calculate things like movement, distances and even the chemical characteristics of distant stars and galaxies.

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 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.

How old is our universe? Before 1999, astronomers had estimated that the age of the universe was between 7 and 20 billion years. But with advances in technology and the development of new techniques we now know the age of the universe is 13.7 billion years, with an uncertainty of only 200 million years. How did this come to be?

What is the highest salary of an astronomer?

What is the main goal of astronomy? Much of astronomy is concerned with understanding distant phenomena, seeing the invisible, and studying the most extreme events in the Universe.

What do stars look like up close? Up close, stars look like enormous balls of brightly glowing gas, shrouded in wispy trails of glowing smoke. Imagine a huge smoky balloon with a popcorn-like texture, lit from inside, that steams and spins and occasionally burps up streams of fire.

Does astronomy pay well? Avg Salary Astronomers earn an average yearly salary of \$150,530.

Is astronomy very hard? In fact, astronomy is a challenging science, but not because the universe is inaccessible in the conventional sense. Rather, astronomers must apply equal measures of analytic thinking and imagination, logic and intuition, to answer the most fundamental questions about the cosmos: What are stars and planets?

How hard is an astronomy degree? A Master's in Astronomy is a challenging and rewarding degree program that requires extensive research, precise writing and quantitative analysis. To be successful in the program, students must possess strong critical thinking skills, an aptitude for mathematics and an interest in scientific exploration.

What is the most disturbing planet?

What is the rarest planet type? Bottom line: A new study suggests there are 4 types of planetary systems. The Ordered class, which includes our own solar

system, is the rarest.

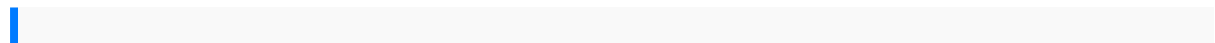
Has anyone landed on Jupiter? The planet is mostly swirling gases and liquids. While a spacecraft would have nowhere to land on Jupiter, it wouldn't be able to fly through unscathed either. The extreme pressures and temperatures deep inside the planet crush, melt, and vaporize spacecraft trying to fly into the planet.

What is the hardest question in the world 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.

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What is the world's hardest physics question?

What is the hardest thing in space? 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.



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ASTRONOMY THROUGH PRACTICAL INVESTIGATIONS ANSWER KEY

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