

# Astronomy through practical investigations

## no 26 answers

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**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 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 questions does astronomy answer?**

**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 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 largest star which we are aware of in the universe?** The largest known star in the universe is UY Scuti. It has an estimated radius of 1.188 billion kilometers. If UY Scuti were the center of our solar system, its photosphere, or outer shell, would reach just past the orbit of Jupiter. It is a red hypergiant, meaning it has an enormous mass and luminosity.

**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 coolest thing about astronomy?**

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

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

**What is the biggest mystery of the universe?** Dark matter is the biggest unsolved mystery of the universe, and it could hold the key to understanding the origin, evolution, and fate of the cosmos. Until we find out what it is, we can only marvel at the dark side of the universe.

**What are two questions that astronomers are trying to answer?** We are trying to figure out how planets form and there is a lot we don't know: (1) How turbulent are protoplanetary disks? (2) Why do we see rings on those disks? (a lot of people like to jump to "planets" but planets are not the only thing that can cause rings).

**What came before the universe?** A second major hypothesis is that the universe, and time, did not exist before the Big Bang. The universe materialized literally out of nothing, at a tiny but finite size, and expanded thereafter.

**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 most unknown thing in the universe?** Dark matter — the unknown substance comprising 85 percent of all matter in the universe — is strange.

**What is the most beautiful thing in the universe?** A: "The most beautiful thing in the universe is the human ability to comprehend it. "Our universe is extraordinarily complex, with processes occurring on all scales, from the subatomic world to the universe at large.

**What is the rarest thing a human can have?**

**What is the rarest color of hair?** Yes, auburn or red hair can be natural. Red hair is in fashion these days. Natural red hair is the rarest hair color in the world. A mere one to two percent of people are born with auburn hair.

**What's the rarest thing to be born with?**

**What is the #1 rarest thing in the world?**

**What makes astronomy 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?

**What is the hardest subject in the universe?**

**Is studying astronomy hard?** 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 hardest thing in the universe?** According to Australian researchers at Monash University, the hardest substance in the universe comes from a dwarf planet destroyed by collision with an asteroid. This substance is the extremely rare lonsdaleite, an incredibly resistant material found in a specific group of meteorites: ureilites.

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