

According to our present theory of solar system formation

Study with Quizlet and memorize flashcards containing terms like According to our present theory of solar system formation, which of the following best explains why the solar nebula ended up with a disk shape as it collapsed? A. It flattened as a natural consequence of collisions between particles in the nebula. B. It was fairly flat to begin with, and retained this flat shape as it ...

According to our theory of solar system formation, why do all the planets orbit the Sun in the same direction and in nearly the same plane? A) The original solar nebula happened to be disk-shaped by chance. B) Any planets that once orbited in the opposite direction or a different plane were ejected from the solar system.

Study with Quizlet and memorize flashcards containing terms like Suppose you find a rock that contains 10 micrograms of radioactive potassium-40, which has a half-life of 1.25 billion years. By measuring the amount of its decay product (argon-40) present in the rock, you conclude that there must have been 80 micrograms of potassium-40 when the rock solidified. How old is the ...

According to our theory of solar system formation, why do we find some exceptions to the general rules and patterns of the planets? A) Our theory is not quite correct because it cannot explain these exceptions. B) The exceptions probably represent objects that were captured by our solar system from interstellar space.

Study with Quizlet and memorize flashcards containing terms like According to our theory of solar system formation, which law best explains why the central regions of the solar nebula got hotter as the nebula shrank in size?, Which of the following is not a line of evidence supporting the hypothesis that our Moon formed as a result of a giant impact?, According to present ...

According to our present theory of solar system formation, how did Earth end up with enough water to make oceans? A. The water was mixed in the other materials in the planetesimals that accreted at our distance from the Sun. B. The water was formed by chemical reactions among the minerals in the Earth's core. C. The water was brought to the forming Earth by planetesimals ...

According to the nebular theory of solar system formation, why were solid planetesimals able to grow larger in the outer solar system than in the inner solar system? ... According to our present theory of solar system formation, which of the following best explains why the solar nebula ended up with a disk shape as it collapsed? It flattened as ...

Artist's conception of a protoplanetary disk. There is evidence that the formation of the Solar System began about 4.6 billion years ago with the gravitational collapse of a small part of a giant molecular cloud. [1] Most of the collapsing mass collected in the center, forming the Sun, while the rest flattened into a protoplanetary

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disk out of which the planets, moons, asteroids, and other ...

The solar system comprises the sun and everything else in its orbit, including comets, moons, planets, asteroids, and meteoroids. It begins with the sun, known as Sol to the ancient Romans, and extends past the four inner planets through the Asteroid Belt to the four gas giants, on to the disk-shaped Kuiper Belt, and far beyond to the teardrop-shaped heliopause.

According to our present theory of solar system formation, why were solid planetesimals able to grow larger in the outer solar system than in the inner solar system? because only metal and rock could condense in the inner solar system, while ice also condensed in the outer solar system

According to our present theory of solar system formation, why were solid planetesimals able to grow larger in the outer solar system than in the inner solar system? A.) Because only metal and rock could condense in the inner solar system, while ice also condensed in the outer solar system. B.)

Study with Quizlet and memorize flashcards containing terms like *According to our present theory of solar system formation, how did Earth end up with enough water to make oceans?*, *What is the primary basis upon which we divide the ingredients of the solar nebula into four categories (hydrogen/helium; hydrogen compound; rock; metal)?*, *The region of our solar ...

It is generally accepted that like other planetary systems, our solar system formed from an original molecular cloud (protosolar cloud) consisting mostly of hydrogen and helium with a rather ...

According to our theory of solar system formation, what three major changes occurred in the solar nebula as it shrank in size? it lost mass, its rotation became erratic, and it formed a ring. ... According to our present theory of solar system formation, which of the following lists the major ingredients of the solar nebula in order from the ...

Study with Quizlet and memorize flashcards containing terms like According to our present theory of solar system formation, which of the following objects now reside quite far from the place where they formed originally? Kuiper belt comets Oort cloud comets Asteroids of the asteroid belt The terrestrial planets, Which of the following is not a line of evidence supporting the hypothesis ...

According to the nebular theory of solar system formation, which law best explains why the solar nebula spun faster as it shrank in size? ... According to our present theory of solar system formation, how did Earth end up with enough water to make oceans? The water was brought to the forming Earth by planetesimals that accreted beyond the orbit ...

A theory on the origin of the Solar System must also be able to account for what we can observe today. Some observations that we can make about the Solar System include the following: Mass. The Sun contains over

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99% of the Solar System's mass while the planets contribute only about 0.2%. Angular Momentum

According to our present theory of solar system formation, why were solid planetesimals able to grow larger in the outer solar system than in the inner solar system? Because only metal and rock could condense in the inner solar system, while ice also condensed in the outer solar system.

Study with Quizlet and memorize flashcards containing terms like The age of the solar system can be established by radioactive dating of A) the oldest meteorites. B) the oldest rocks on the Moon. C) the atmosphere of Mars. D) the oldest Earth rocks. E) It hasn't been done yet, but the age of the solar system could be obtained from a sample of Io's surface., According to our theory of ...

Study with Quizlet and memorize flashcards containing terms like According to our present theory of solar system formation, how did Earth end up with enough water to make oceans?, Why are terrestrial planets denser than jovian planets?, How do scientists determine the age of the solar system? and more.

Study with Quizlet and memorize flashcards containing terms like According to our modern science, which of the following best explains why the vast majority of the mass of our solar system consists of hydrogen and helium gas?, According to our present theory of solar system formation, which of the following best explains why the solar nebula ended up with a disk shape as it ...

According to our present theory of solar system formation, which of the following statements about the growth of terrestrial and jovian planets is not true? a.) The jovian planets began from planetesimals made only of ice, while the terrestrial planets began from planetesimals made only of rock and metal. b.) Both types of planet begun with planetesimals growing through the ...

Question: According to our present theory of solar system formation, which of the following statements about the growth of terrestrial and jovian planets is not true? Swirling disks of gas, like the solar nebula in miniature, formed around the growing jovian planets but not around the growing terrestrial planets. The jovian planets began from planetesimals made only of

According to our present theory of solar system formation, which of the following statements about the growth of terrestrial and jovian planets is not true? The jovian planets began from planetesimals made only of ice, while the terrestrial planets began from planetesimals made only of rock and metal.

Study with Quizlet and memorize flashcards containing terms like Which of the following best explains why we can rule out the idea that planets are usually formed by near-collisions between stars?, According to our modern science, which of the following best explains why the vast majority of the mass of our solar system consists of hydrogen and helium gas?, According to ...

Study with Quizlet and memorize flashcards containing terms like What is the primary basis upon which we

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divide the ingredients of the solar nebula into four categories (hydrogen/helium; hydrogen compound; rock; metal)?, According to our present theory of solar system formation, which of the following best explains why the solar nebula ended up with a disk shape as it ...

Study with Quizlet and memorize flashcards containing terms like In essence, the nebular theory holds that_____, According to modern science, what was the approximate chemical composition of the solar nebula?, The terrestrial planets are made almost entirely of elements heavier than hydrogen and helium. According to modern science, where did the elements heavier than ...

Question: According to our present theory of solar system formation, which of the following lists the major ingredients of the solar nebula in order from the most abundant to the least abundant?hydrogen and helium gas; rock; metal; hydrogen compoundshydrogen and helium gas; hydrogen compounds; rock; metalhydrogen, water, methane, heliumhydrogen compounds; ...

Comets condensed in the outer solar system, and many of them were thrown out to great distances by close gravitational encounters with the giant planets. After the Sun ignited, a strong solar wind cleared the system of gas and dust. The asteroids represent the rocky debris that remained. Size and Time Scales of the Solar System

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