



# The most complete solar system in history

The Sun and the planets formed together, 4.6 billion years ago, from a cloud of gas and dust called the solar nebula. A shock wave from a nearby supernova explosion probably initiated the collapse of the ...

How did our solar system come to be, and when did key events that led to life on Earth occur?

All this information is scrutinized in attempts to understand in detail the origin and evolution of the solar system--a goal toward which astronomers continue to make great strides.

Though many ancient civilizations mention these five planets, I'll just highlight a few. Mercury: Mentioned by the Sumerians as early as the second millennium BC. The Babylonians ...

The Solar System, named after the Sun, originated approximately 4.6 billion years ago from the collapse of a molecular cloud, resulting in the formation of the Sun and a protoplanetary disc.

Two series of spacecraft led the way in NASA's exploration of the outer solar system: Pioneer and Voyager. Although there were Pioneer flights to the Sun and Venus, the best known were Pioneer 10 ...

Inside the Sun's core hydrogen is fused into helium for billions of years, releasing energy which is over even longer periods of time emitted through the Sun's outer layer, the photosphere. This creates the ...

We have known since the time of the Copernican revolution that the Sun is the dominant object in the Solar System. A tour of the Solar System reveals some impressive worlds, but the Sun dwarfs them ...

Our solar system formed about 4.6 billion years ago from a dense cloud of interstellar gas and dust. The cloud collapsed, possibly due to the shockwave of a nearby exploding star, called a ...

For several decades, many astronomers preferred the tidal or near-collision hypothesis put forward by James Jeans in 1917, in which the approach of some other star to the Sun ultimately formed the ...



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