

# Original solar system





## Overview

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How did the Solar System start?

The solar system as we know it began life as a vast, swirling cloud of gas and dust, twisting through the universe without direction or form. About 4.6 billion years ago, this gigantic cloud was transformed into our Sun. The processes that followed gave rise to the solar system, complete with eight planets, 181 moons, and countless asteroids.

How old is the Solar System?

Various methods, including studying meteorites and isotopes, have helped scientists estimate the solar system's age at approximately 4.6 billion years. Overall, the nebular hypothesis successfully accounts for many observed characteristics of the solar system, while ongoing research continues to refine our understanding of planetary formation.

How long did Solar System formation last?

This model for solar system formation was widely accepted for about 100 years. During this period, the apparent regularity of motions in the solar system was contradicted by the discovery of asteroids with highly eccentric orbits and moons with retrograde orbits.

Where did our planet come from?

To answer that, we have to look at where the stuff of which our planet is made came from. Protoplanetary disks in the Orion Nebula. These embryonic planetary systems consist of rotating disks of gas and dust surrounding young stars. Our own Sun and Solar System formed in an environment similar to this. Image credit: NASA, ESA and L. Ricci (ESO).



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### [Origins of the Solar System , Research Starters](#)

The & quot;Origins of the Solar System& quot; centers on the nebular hypothesis, a prevailing scientific model explaining how our solar system formed from a vast cloud of gas and dust. ...

### [The origin of the Solar System](#)

10 hours ago · How did the Sun, planets and moons in the Solar System form? There is a surprising amount of debate and several strong and competing theories, but do scientists have ...



### **The Origin of the Solar System , An Introduction to the Solar System**

There have been many different theories of how our Solar System formed. These can be split into theories suggesting that the processes that formed the Sun and the planets took place ...



### [Formation of Our Solar System](#)

Formation of Our Solar System All life on Earth shares a common chemistry. The bodies of dogs, dragonflies, dinosaurs, and diatoms are made up of carbon, calcium, oxygen, and a few other ...



### Origin of the Universe and Our Solar System

By the end of this chapter, students should be able to: Explain the formation of the universe and how we observe it. Understand the origin of our solar system. Describe how the objects in our ...



### How our solar system was born

Jun 4, 2023 · The solar system as we know it began life as a vast, swirling cloud of gas and dust, twisting through the universe without direction or form. About 4.6 billion years ago, this gigantic ...



### The origin of the Solar System

10 hours ago · How did the Sun, planets and moons in the Solar System form? There is a surprising amount of debate and several strong and ...





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Dec 2, 2025 · The asteroid Bennu continues to provide new clues to scientists' biggest questions about the formation of the early solar system and the origins of life. As part of the ongoing ...

## 9.5: Origin of the Solar System

The solar nebula model can explain many of the regularities we find in the solar system, but the random collisions of massive collections of planetesimals could be the reason for some ...



## The Solar System: structural overview, origins and ...

Apr 24, 2024 · Abstract Understanding the origin and long-term evolution of the Solar System is a fundamental goal of planetary science and astrophysics. This chapter describes our current ...



## Solar system

5 days ago · Solar system - Origin, Planets, Formation: As the amount of data on the planets, moons, comets, and asteroids has grown, so too have the problems faced by astronomers in ...



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