

# Restore the solar system





## Overview

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### Why is Solar System Research important?

Solar System research is essential for understanding the origin and evolution of planets, along with the conditions necessary for life. Center for Astrophysics | Harvard & Smithsonian scientists study the Solar System in many ways: Participating in current and next-generation astronomical surveys mapping a large part of the sky.

### What is the future of the Solar System?

Looking ahead, the future of our Solar System is dynamic and somewhat chaotic. In about 1-2 billion years, the increasing brightness of the Sun will likely make Earth uninhabitable. The Sun will eventually exhaust its hydrogen fuel, swelling into a red giant and engulfing the inner planets.

### Will the Solar System ever end?

"A strict, nerdy answer is that the solar system will never end due to the sun's evolution" or the death of the sun, Stern said. Even when the sun is a burnt out cinder, he said, many objects — including giant planets like Jupiter — will continue to orbit it. Even further into the future, Adams said, the likelihood of rare events increases.

### What is the story of the Solar System?

The story of the Solar System is a complex tale of formation, evolution, and eventual decline. Over billions of years, the planets, moons, and smaller bodies have shaped the environment we know today. As scientists continue to study our Solar System, they hope to uncover more about its past and its future.



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NASA's Parker Solar Probe captured solar material looping back to the sun, revealing how it recycles magnetic energy and shapes future solar storms.

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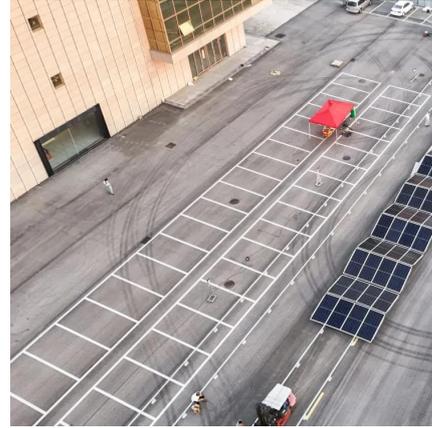


### Solar system , Definition, Planets, Diagram, Videos, & Facts

Solar system, assemblage consisting of the Sun and those bodies orbiting it: 8 planets with more than 400 known planetary satellites; many asteroids, some with their own ...



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Researchers have discovered that a close encounter with a rogue planet or brown dwarf during the Sun's early years could have triggered the reshuffling of our Solar System's giant planets. Running

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The Solar System provides the only known example of a habitable planet, the only star we can observe close-up, and the only worlds we can visit with space probes. Solar ...

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## The Journey of Our Solar System

Title: The Solar System: structural overview, origins and evolution Abstract: Understanding the origin and long-term evolution of the Solar System is a fundamental goal of ...

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