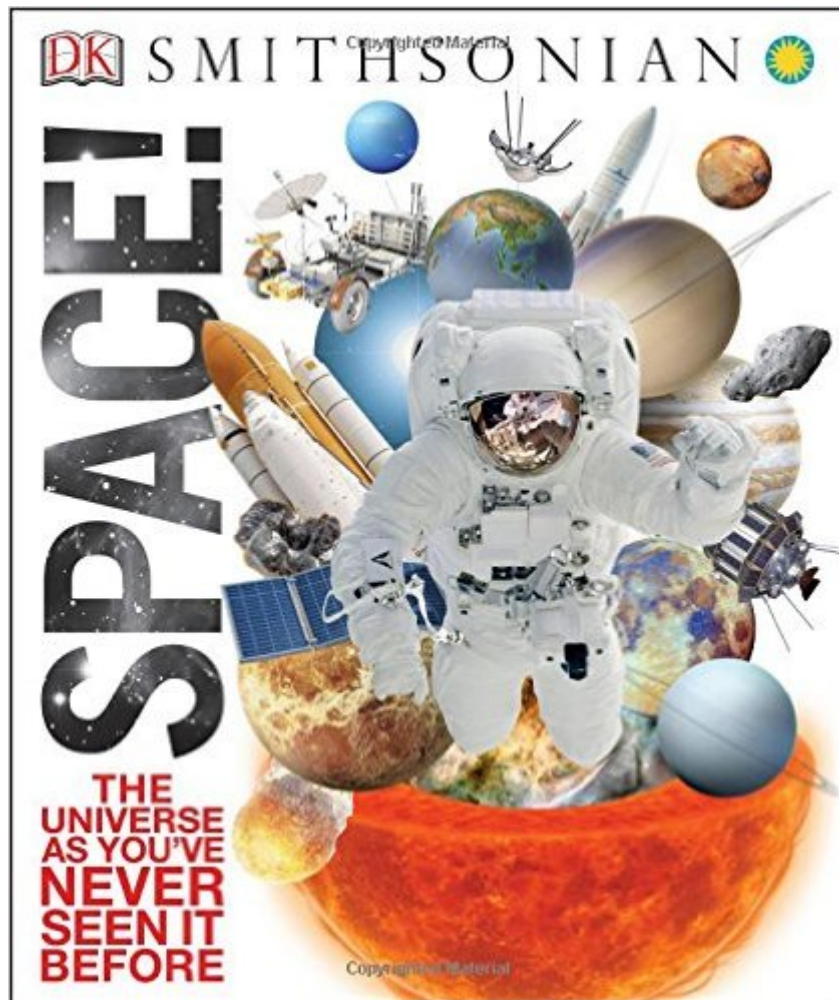


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# Space!



## Synopsis

From the publishers of the award-winning Knowledge Encyclopedia comes Space! Truly encyclopedic in scope and fully up-to-date covering the stars and planets, space exploration, and the night sky, Space! is packed with amazing facts and NASA images revealing the wonders of the cosmos — from black holes to the big bang to the planets. Using computer-generated 3D models to explore and open up the most amazing objects in the universe, showing each object in incredible detail, Space! is bursting with facts, infographics, and data boxes. Every topic is covered in depth and detail while remaining easy to understand at a glance. With fresh content, up-to-date images, and crystal-clear, hi-tech design, Space! is a bold new approach to family reference.

## Book Information

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Age Range: 10 - 17 years

Grade Level: 5 - 12

## Customer Reviews

**The Sun** The Sun has been shining for nearly 5 billion years and will probably continue to shine for another 5 billion. More than a million times larger in volume than Earth, it contains over 99 percent of the solar system's mass. [View larger](#)

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**Star Birth**

New stars and planets are born in vast clouds of interstellar gas and dust in a process that can take millions of years. The

**Universe** Everything in the universe is part of something bigger. Earth is part of the Solar System, which lies in the Milky Way galaxy, which is just a tiny bit of the whole universe. **Rovers** Most

spacecraft that touch down on other worlds have to stay put where they land. Rovers, however, are built to explore. These sophisticated robots are sent commands by radio signal from Earth but are programmed to find their own way around.

**Black Holes** Black holes are among the strangest objects in the universe. The pull of their gravity is so great that nothing can escape from them—“not even light.” [View larger](#)

[View larger](#) [View larger](#) [View larger](#) [View larger](#) **Multiple stars** Unlike many other stars, our Sun is a loner with no companions. Most of the stars we can see in the night sky belong to multiple star systems—that is, two or more stars orbiting each other, held together by gravity. **Lives and deaths of stars** Stars shine as long as they can maintain the delicate balance between the inward pull of their own gravity and the outward pressure of energy from the core. How long this lasts depends on how much matter a star starts off with. **Asteroids** Millions of rocks known as asteroids hurtle around the inner Solar System, most of them in a belt between the orbits of Mars and Jupiter. They range in size from pebbles to monsters hundreds of miles wide. **Moon buggy** The first Apollo astronauts had to explore the Moon on foot. On the last three missions, astronauts took a Lunar Roving Vehicle (LRV)—“a battery-powered buggy that allowed them to travel for miles.”

**Exploring Space: Space Stations** Only three people have spent more than a year continuously in space, all of them on board a space station. These giant orbiting spacecraft allow astronauts to spend long periods living and working off the planet. [View larger](#)

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