

Space Encyclopedia A Tour Of Our Solar System And Beyond National Geographic Kids

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The search for life in other worlds begins with the search for a habitable planet. This book explores the “Goldilocks Zone,” a defined area that is perfect for harboring life in our universe. Readers will find out how scientists are finding habitable planets by using terrestrial and orbiting telescopes to search these regions. Readers will also get to know how extreme zones on Earth are helping scientists redefine their concept of “habitable” and what kind of life we might find. Fascinating full-color photographs and artist renderings from NASA illustrate this fascinating hunt. People have been sending rockets into space since World War II, and there is still much to be learned about our solar system, but what lies beyond it is an even bigger mystery. This stimulating book helps readers explore the possibilities that exist in the galaxies beyond our solar system. Colorful images and thought-provoking text encourage readers to look for answers to questions professional scientists might face. High-interest information supports STEM and NGSS curriculums and will attract reluctant and curious readers alike.

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BeyondNational Geographic Books

COSMOLOGY & THE UNIVERSE. From the fiery mass of the Sun's core to the black hole at the centre of the Milky Way, this title helps you to take off into the farthest limits of space and discover our universe. It also helps to explore the discoveries in astronomy, spectacular star charts and stunning images from space probes and telescopes.

Black holes are one of the greatest mysteries of outer space. No visible light can escape the strong gravity of a black hole. This makes black holes invisible—and very difficult to study. But scientists make new discoveries and develop new theories about these mysterious objects every day. In 2015, astronomers were able to finally confirm a theory that Einstein had developed one hundred years earlier! And in 2016, scientists found that black holes may form in a different way than they ever thought possible. Read this book to learn more about the incredible and mind-boggling science of black holes.

Have you ever laid on the ground at night looking up at the twinkling stars? Those stars are the millions of planets, moons, suns and space dust that make up the Milky Way Galaxy. Our Solar System lives in this galaxy and we are viewing Earth's neighbors when we look at the night sky. Sometimes you might see a shooting star streak across the sky. This is usually a meteoroid, small rock or ice that enters the Earth's atmosphere and burns up. Imagine what it must be like to zip through space and look back to Earth where kids around the globe are gazing into the night sky. Includes the most up-to-date findings from the New Horizons satellite.

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Scientists have identified at least 100 million pieces of space debris—from paint chips to nonoperational zombie satellites—floating in Earth's orbit. And over 100 tons of those pieces enter Earth's atmosphere each year!

Journey into outer space and learn about the dangers of space junk collisions, how scientists track them, and how space agencies are working to develop new technologies to clean up the space junk. Along the way, you'll hear from the scientists who are working to ensure that outer space remains a safe place to travel and explore. If we don't tackle the space junk problem, it might be impossible to travel into space; it could even trap us on Earth.

"Discusses the planet Mercury, including observations by ancient cultures, current knowledge of Mercury, and plans for future scientific research and space exploration"--

Read about scientists' recent discoveries about Uranus and what they hope to find out about the planet in the future. Up-to-date information and a focus on STEM will keep readers engaged and informed.

Words, photos, charts, and illustrations combine to explain the mysteries of space. All these are arranged in short bursts of information that will ease comprehension for learners of all kinds.

"Discusses the planet Venus, including observations by ancient cultures, current knowledge of Venus, and plans for future scientific research and space exploration"--

"Presents at more than 100 facts about planets and stars in a unique layout that appeals to struggling and reluctant readers"--

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A tour of outer space explores the solar system as well as stars, galaxies, and the birth of planets, and speculates on whether other intelligent beings exist in the universe.

When? Where? What? Why? This stimulating and comprehensive encyclopedia for children provides answers to all the questions kids love to ask. Each chapter is jam-packed with maps, charts, timelines, diagrams, beautiful images and amazing facts. Did you know, for example, that a single drop of blood contains around five million blood cells? Or that there are areas of desert in all seven of Earth's continents? Prepare to build your knowledge on a wide range of topics - including Earth and beyond, plants and animals, history and politics, science, technology, and the human body - arranged thematically with more than 9,000 indexed entries and 2,500 colourful images. Cross-reference icons encourage children to explore and discover linked information, feeding their curiosity and building their general knowledge. The New Children's Encyclopedia, which has sold almost 500,000 copies worldwide since 2009, has now been fully updated in line with the latest knowledge and research. Developed, written, and checked by experts this is the must-have reference book for every child's library.

Through space exploration humans have learned a great deal about the planets, stars, and other objects in space. More than five thousand spacecraft have been launched into space to gather information since 1957. Without space travel, NASA may never have developed many of the things we take for granted today, such as cell phone

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cameras, CAT scans, and ski boots. This useful and interesting resource discusses the many types of manned and unmanned spacecraft, describes how a rocket works, and looks ahead to space travel's future. Won The Royal Society Young People's Book Prize in 2013. Designed for preschool children, the basic knowledge of traveling in space starts from the first page turning. Pre-departure training for Jedi Rescue, start! Super-attractive fantasy space children's book! There are so many page-turning mechanisms in the whole book, which make people immersed in the surprise of exploring and discovering the secrets of the universe. -The RS Award selection team will come and follow this fascinating flip book.

This visually stunning guide gives an up-close look at some of the more elusive objects in space. Definitions of better-known objects, such as comets, as well as lesser-known objects, such as centaurs and trojans, give a basic understanding of space objects and the history of how they were discovered. It also covers the scientists who theorized about their existence and the later scientists who actually discovered them. Readers will also get a look at how these objects can impact our future life and the plans scientists have for how we might learn more about them.

In this visually spectacular tour of the outer reaches of our solar system, readers discover many intriguing facts. For example, the outer planets are separated from the inner planets by the asteroid belt. And, in addition to discovering Jupiter's moons, Galileo, in the early 17th century, observed the phases of Venus and made

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careful studies of sunspots. Readers also learn why humans could never live on one of the gas planets. The physical and chemical features and movement of the outer planets and their moons are detailed. Sidebars pique readers' interest in space missions, spacecraft, and space-related data and terminology.

Audisee® eBooks with Audio combine professional narration and sentence highlighting to engage reluctant readers! Did you know that Pluto has mountains, glaciers, and even blue skies? In July 2015 a spacecraft called New Horizons finally reached Pluto—almost ten years after it had launched! The spacecraft flew by Pluto to take the first close-up photos of the dwarf planet. When it began sending those photos back to Earth, scientists were amazed by what they saw. Pluto was more fascinating than scientists ever imagined! Read this book to learn more about New Horizons, its long journey to Pluto, and the things scientists learned from the photos of this distant dwarf planet.

Provides a comprehensive reference for Earth and space sciences, including entries on climate change, stellar evolution, tsunamis, renewable energy options, and mass wasting.

In 1961, humanity's insatiable curiosity pushed our species to boldly go where we had never gone before: outer space. This comprehensive book outlines the scope of humanity's space exploration for inquisitive readers. Breathtaking photographs, illustrations, and 3-D visuals allow readers to explore the wonders of our galaxy, while fact boxes highlight fascinating details that inspire wonder and encourage curiosity. Readers will

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learn about the planets of our solar system, comets and asteroids, the space race, and other essential science and history topics. This immersive book will be a popular addition to any library among avid and reluctant readers alike.

The ultimate guided tour of our universe. From the fiery mass of the Sun's core to the black hole at the centre of the Milky Way, take off into the farthest limits of space and discover our universe. Explore the latest discoveries in astronomy, spectacular star charts and stunning images from space probes and telescopes. A dazzling visual exploration of all the astonishing features and phenomena of space. Out-of-this-world reference for all the family.

This colorful, dynamic title explains to upper-elementary-level readers the exciting science behind the sun and all its fantastic phenomena. The text covers the sun's role from ancient mythology and astronomy through modern discoveries before going in-depth and inside the sun's layers, breaking down the chemistry and physics behind the sun's composition and atmosphere. Thrilling events such as solar flares, eclipses, and star formation are explained with bright, color photographs and diagrams that will make the spectacular science behind the sun simple for every reader.

Space Atlas combines updated maps, lavish photographs, and elegant illustrations to chart the solar system, the universe, and beyond. For space enthusiasts, science lovers, and star gazers, here is the newly revised edition of National Geographic's enduring guide to space, with a new introduction by American

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hero Buzz Aldrin. In this guided tour of our planetary neighborhood, the Milky Way and other galaxies, and beyond, detailed maps and fascinating imagery from recent space missions partner with clear, authoritative scientific information. Starting with the sun and moving outward into space, acclaimed science writer and physicist James Trefil illuminates each planet, the most important moons, significant asteroids, and other objects in our solar system. Looking beyond, he explains what we know about the Milky Way and other galaxies--and how we know it, with clear explanations of the basics of astrophysics, including dark matter and gravitational waves. For this new edition, and to celebrate the 50th anniversary of his moonwalk, astronaut and American hero Buzz Aldrin offers a new special section on Earth's moon and its essential role in space exploration past and future.

From a launchpad in Florida to the lunar surface ... Two cartoon flies join readers as they blast off into space and step foot on the moon with Neil Armstrong, providing a blend of facts and fun while telling the story of a great moment in space-exploration history.

Take your child on an incredible journey through our Solar system and beyond with this first reference for young space explorers. Discover all about our galaxy from how big it is and where it is, to how it was formed, then explore our amazing planets together. Find out why astronauts get taller when they're in space, where the biggest mountain in the Solar System is and even how a mysterious black hole forms. Packed with curiosity quizzes, 'weird-or-what' boxes and out-of-this-world facts

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kids love getting their teeth into, there's lots to see and explore. Perfect for homework or just for fun. Go ahead, let your children's imagination blast off into the cosmos! Presents a comprehensive reference to astronomy and space exploration, with articles on space technology, astronauts, stars, planets, key theories and laws and more.

Blast off into space with the experts at National Geographic to discover everything we know about the universe, including exciting, recent discoveries and amazing brand-new NASA space photography. The updated and expanded edition of the hit Space Encyclopedia presents the most up-to-date findings on space exploration and research and breathtaking views of the universe, as captured by the latest and greatest technology, including the recent first ever image of a black hole. This complete reference contains everything kids need to know about our sun and planets including the new dwarf planets, the formation of the universe, space travel, the possibility of life beyond Earth, and more. Authored by David A. Aguilar, an internationally recognized astronomer and former Director of Science Information and Public Outreach at the Harvard-Smithsonian Center for Astrophysics, it is an authoritative and beautifully illustrated must-have for every family, providing both accessible information for school reports and compelling reading on the mysteries beyond our planet.

Exploring and studying space are among humanity's greatest accomplishments, but history books have too often neglected the incredible work of women

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astronomers and scientists. This informative book illuminates the lives and achievements of astronomical geniuses, from Wang Zhenyi of the Qing dynasty, to Sally Ride, the first American woman in space. Mini bio and feature boxes provide fast facts on each featured scientist, and a gallery spread introduces readers to even more crucial women astronomers. Quotes from each scientist and their contemporaries inspire readers to develop their own love of STEM. Beautiful original illustrations and vibrant photographs pull readers into this thoughtful book. A thorough timeline gives readers a view of women's progress in the field of astronomy, and a "Science Now" spread shows readers the wonders of modern day astronomy.

A complete history of human endeavors in space, this book also moves beyond the traditional topics of human spaceflight, space technology, and space science to include political, social, cultural, and economic issues, and also commercial, civilian, and military applications. • 580 articles describing various aspects of manned and unmanned space exploration, including a full range of social, technological, and political issues, such as government policy, nationalism, and the technology/military-driven economy • Six overview essays, introducing each of the encyclopedia's major sections and putting that aspect of space exploration into historical context • 136 contributors, many who are leading space historians and experts affiliated with the American Astronautical Society, make firsthand knowledge and fresh insights accessible to all audiences • Numerous photos, including stunning shots from

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space, star charts, technical drawings, and more • Short bibliographies conclude each entry, pointing readers to the best sources to find out more about the topic • A Glossary defining the various technical terms encountered in the encyclopedia

Since the last flight of the Space Shuttle in 2011, America's manned space program has been put on hold. NASA has been forced to rely on Russian and commercial spacecraft to ferry personnel and supplies to the International Space Station. But NASA scientists and engineers, and their colleagues in the spaceflight community, are working hard to return America to its former dominance in space via the Orion program. Orion, America's next-generation spacecraft, is a Multi-Purpose Crew Vehicle. It is designed to carry 2 to 6 crew members into deep space. Similar to the Apollo capsule in appearance, but larger and much more advanced, it has already successfully completed its first unmanned test flight. In 2018, Orion will lift into space on a massive new rocket, especially designed for it, for the first time. The event, designated Exploration Mission 1, will mark the first of many steps along America's path to the planet Mars—and beyond.

Space Science describes the world outside of ours. It includes a map of the planets, a description of the beginning of the universe, and fact boxes and sidebars on the sun, other stars, the planets, and other topics. It outlines the history of our study of the

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stunning photography to excite younger readers and show them the many wonders of our extraordinary Universe. From asteroids and comets to galaxies and planets, Space Visual Encyclopedia takes kids on an in-depth tour of our Solar System and beyond! Go starry-eyed as you learn about the different constellations and look to the skies for the rockets, shuttles, and telescopes used in the most incredible space missions to date. Be inspired by the people who have influenced space history, from ancient astronomers to groundbreaking astronauts. Solve the mysteries of the Universe as you travel back to the Big Bang, experience the pull of a black hole, and come face to face with dark matter. With its stunning visuals and amazing facts, Space Visual Encyclopedia is a must-have for every space enthusiast. So what are you waiting for? 3-2-1, blast off!

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