Our Solar System Sun Moons Planets Second Grade Science Series 2nd Grade Books Childrens Astronomy Space Books

From the #1 New York Times bestselling author of Astrophysics for People in a Hurry comes a follow-up guide to more of the most popular questions about the universe. In this companion volume to Merlin's Tour of the Universe, Neil de Grasse Tyson presents a completely new collection of questions and answers about the cosmos for stargazers of all ages. Whether waxing about Earth and its environs, the Sun and its stellar siblings, the world of light, physical laws, or galaxies near and far, Merlin--a fictional visitor from Planet Omniscia and our guide to the universe--is easy to understand, often humorous, and always entertaining. Merlin fields a wide range of questions from many curious mortals, and in so doing draws on his own vast knowledge as well as the expertise of many close friends, including Archimedes, Galileo, Einstein, and Santa. Merlin hasn't been stumped yet, responding to questions including: If aliens exploded our moon, what effect would it have on us? What are your thoughts on the theory that a star named Nemesis is circling our solar system and was responsible for killing off the dinosaurs? Is it true that if I leave a container on my roof for a period of time, I can actually collect space particles from outer space? Delightfully illustrated throughout, Just Visiting This Planet is a timeless book for lovers of the universe by one of its brightest lights.

Study the stars, moon, sun and planets in this astronomy ebook for beginners. Basic knowledge on astronomy will provide an excellent foundation to the understanding of how life survives on Earth. At the end of this book, your child should be able to identify the key ingredients that make planets livable. Grab a copy today.

Briefly describes the sun, moon, and planets, as well as the force of gravity that connects them.

Join award-winning science writer Seymour Simon in this completely updated edition of Our Solar System, as he takes young readers on a fascinating tour through space! With beautiful full-color photographs and spacecraft images, including many taken by the Mars rovers and Hubble Space Telescope, this nonfiction picture book teaches young readers all about the solar system, including the sun, the eight planets, and their moons. Covering all the latest discoveries in space, young astronomers will be over the moon about the fun facts, fascinating science, and incredible photographs. A must-have for every child interested in outer space! This book includes an author's note, a glossary, an index, and further reading suggestions. An excellent choice for classrooms and homeschooling, Our Solar System supports the Common Core State Standards. Check out these other Seymour Simon books about the universe and space: Comets, Meteors, and Asteroids Destination: Jupiter Destination: Mars Destination: Space Exoplanets Galaxies Stars The Sun The Universe

In response to the new information gained about the Solar System from recent space probes and space telescopes, the experienced science author Dr. John Wilkinson presents the state-of-the art knowledge on the Sun, solar system planets and small solar system objects like comets and asteroids. He also describes space missions like the New Horizon’s space probe that provided never seen before pictures of the Pluto system; the Dawn space probe, having just visited the asteroid Vesta, and the dwarf planet Ceres; and the Rosetta probe inorbit around comet 67P/Churyumov–Gerasimenko that has sent extraordinary and most exciting pictures. Those and a number of other probes are also changing our understanding of the solar system and providing a wealth of new up close photos. This book will cover all these missions and discuss observed surface features of planets and moons like their compositions, geisers, aurorae, lightning phenomena etc.Presenting the fascinating aspects of solar system astronomy this book is a complete guide to the Solar System for amateur astronomers, students, science educators and interested members of the public.

Take an amazing journey through our solar system and beyond with this friendly introduction to space. Explore the sun, planets and more. Get ready to launch a lifetime of discovery.

This book is a very colorful, factual account of our solar system.

Proving to be both varied and fascinating, moons are far more common than planets in our Solar System. Our own Moon has had a profound influence on Earth, not only through tidal effects, but even on the behaviour of some marine animals. Many remarkable things have been discovered about the moons of the giant outer planets from Voyager, Galileo, Cassini, and other spacecraft. Scientists have glimpsed volcanic activity on Io, found oceans of water on Titan, and captured photos of icy geysers bursting from Enceladus. It looks likely that microbial life beyond the Earth may be discovered on a moon rather than a planet. In this Very Short Introduction David Rothery introduces the reader to the moons of our Solar System, beginning with the early discoveries of Galileo and others, describing their variety of mostly mythological names, and the early use of Jupiter's moons to establish position at sea and to estimate the speed of light. Rothery discusses the structure, formation, and influence of our Moon, and those of the other planets, and ends with the recent discovery of moons orbiting asteroids, whilst looking forward to the possibility of finding moons of exoplanets in planetary systems far beyond our own. ABOUT THE SERIES: The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area. These pocket-sized books are the perfect way to get ahead in a new subject quickly. Our expert authors combine facts, analysis, perspective, new ideas, and enthusiasm to make interesting and challenging topics highly readable.

See the Solar System like never before The Planets is an awe-inspiring and informative journey through the Solar System, with all-new 3D globes and models built using the latest data gathered by NASA and the European Space Agency that can be viewed from any angle and layer by layer. You can even move in for a closer look with 3D terrain models that take you on a trip to the surfaces of the rocky planets. As well as covering the Sun, the planets, hundreds of moons and thousands of asteroids and comets, The Planets includes all the major Solar System missions, right up to the latest Mars rovers. Timelines explore our relationship with each planet and infographics present fascinating Solar System facts and planet facts. The Planets is ideal for anyone interested in space exploration and all armchair astronauts or astronomers.

Activities covered include: The scale of the solar system: How big are the planets? How far apart are the planets? The shape of planetary orbits Retrograde motion: The planets move backwards? Phases of the moon ...plus 13 more intriguing activities See other Hands-On Science Series titles (13-Book set)

Earth rotates on its axis. This gives us day and night. Earth has seasons because it is tilted as it revolves around the sun. Our solar system includes planets, moons, stars, and other objects. The sun is a star. Its energy affects Earth in many

ways. We use telescopes and space probes to explore our solar system.

"Describes the eight planets in our solar system, including the birth of the solar system and the planets' orbits around the Sun"--Provided by publisher.

Bring outer space into your very own home! With Your Bedroom is a Solar System!, kids can transform an ordinary room into an out-of-this-world experience with reusable, wall-safe (and BPA-free!), glow-in-the-dark stickers of the sun, planets, moon, and stars! Space. It is a subject that has captivated imaginations since the dawn of time, spawning science-fiction tales of alien invasions, catastrophic meteorites, and planet exploration. Your Bedroom is a Solar System! taps into that timeless wonder for everyone from star-gazing kids to real-life astronauts. Within this keepsake-worthy hardcover book you will find more than 50 reusable (and BPA-free) glow-in-the-dark stickers of the sun, moon, planets, and stars in our solar system, as well as illustrations of asteroids, comets, spacecraft, and other fascinating parts of the universe such as constellations! Plus,Your Bedroom is a Solar System! is jam-packed with information that every aspiring astronaut needs such as: - Space is completely silent - Many of Uranus’s moons are named after the characters in William Shakespeare’s A Midsummer Night’s Dream - Before meteors enter the Earth’s atmosphere, they are called meteoroids - The tides are created by the Sun and Moon’s gravitational pulls - Only 5% of the Universe is visible from Earth - The closest galaxy to our Milky Way Galaxy is the Andromeda Galaxy...and it’s 2.5 million light years away - And much, much more! Discover everything you need to know about worlds beyond Earth, from dwarf planets to black holes to supernovas and more! Kids’ book author Hannah Sheldon-Dean guides readers through this solar system and beyond, with scientific fun facts and easy-to-follow directions for stickering your bedroom to look just like the universe at night! Get ready in 3…2…1…blastoff!

Information collected by satellites recently sent by the USA, the European Space Agency, Japan, Germany, the United Kingdom, and Russia to monitor the Sun has changed our knowledge and understanding of the Sun, particularly its effect on Earth. This book presents these findings in a way that will be welcomed by amateur astronomers, students, educators and anyone interested in the Sun. Enhanced by many colour photographs, the book combines newly acquired scientific understanding with detailed descriptions of features visible on the Sun’s surface and in its atmosphere. In the past, observing the Sun has been left to academics with specialised instruments, since solar observation has been unsafe because of the risk of eye damage. This book explains how amateur astronomers can safely observe the various solar phenomena using special hydrogen-alpha telescopes that are not too expensive. Amateurs can now make a positive contribution to science by monitoring the Sun as professionals do. Amateurs can also access the solar images taken by satellites via the internet. This book helps readers interpret and understand what these images are showing about the Sun, including the latest 3D images. Solar observers will enjoy comparing their own solar telescope observations with those produced by space probes such as SDO, SOHO, Hinode and STEREO, and further enjoy learning about transits, eclipses, and space weather and how the Sun compares to other stars in the universe. The main purpose of this book is to present some of the fascinating solar phenomena in their full splendor to readers through a variety of illustrations, photographs and easy to understand text.p/p

In recent years, there has been increased interest in our Solar System. This has been prompted by the launching of giant orbiting telescopes and space probes, the discovery of new planetary moons and heavenly bodies that orbit the Sun, and the demotion of Pluto as a planet. In one generation, our place in the heavens has been challenged, but this is not unusual. Throughout history, there have been a number of such world views. Initially, Earth was seen as the center of the universe and surrounded by orbiting planets and stars. Then the Sun became the center of the cosmos. Finally, there was no center, just a vast array of galaxies with individual stars, some with their own retinue of planets. This allowed our Solar System to be differentiated from deep-sky objects, but it didn’t lose its mystery as more and more remarkable bodies were discovered within its boundaries. This book tells the exciting story of how we have conceptualized and mapped our Solar System from antiquity to modern times. In addition to the complete text, this story is made more vivid by: • 162 Solar System and planetary maps, diagrams, and images (over a third in color); • direct quotes and figures from antiquarian, contemporary, and Space Age documents and photographs that allow the reader to track how humans have viewed the Solar System from original sources; • nine tables that compare the various world views, relative planetary positions, and components of the Solar System with each other. Broad in scope and rich in imagery, this book will draw the reader into the story of our Solar System and how it has been mapped since the beginning of recorded time.

The sun, moon, stars, and planets have been a source of wonder and fascination for as long as humans have inhabited the earth. In Sky Gazing, a highly visual guide to observing the sky with the naked eye, kids aged 9–14 will delve into the science behind what they see, whether they live in a dark rural setting or under the bright lights of the city. Exploring astronomical objects and events, this captivating book takes young readers on a tour of our solar system and deep space beyond, with explanations of how objects like Earth’s moon were formed and the “why” behind phenomena such as eclipses, northern lights, and meteor showers. Curious sky gazers will discover how to find and observe planets — no binoculars or telescopes required! — and star charts will guide them in spotting constellations throughout the seasons and in both hemispheres while they learn about constellation myths from cultures around the world. Activities include tracking the cycles of the sun and moon and observing the sky during daylight hours or on a cloudy night, while astronomer profiles and sidebars on space technology and current issues such as light pollution help ground kids’ discoveries in the ancient and enduring science of studying the sky.

Yes, science can be made fun and easy! This book features the solar system in all its glory. You can see pictures of the planets and the galaxy in full color. The layout is definitely going to amaze and delight a child. As a result, learning becomes highly entertaining. Grab a copy today!

Describes the origins, characteristics, and future of the sun, planets, moons, asteroids, meteoroids, and comets.

How do we know Earth isn't flat? What are the benefits of space exploration, and is it good value? How and why do scientists study the Universe? This series answers questions like these, while tackling key curriculum topics relating to Earth, Space, and the Universe. The series encourages critical thinking to support the modern science curriculum and includes features on "space science in the home" and "what it means for us", showing the relevance of space science to our everyday lives.

THE MAGIC SCHOOL BUS PRESENTS THE PLANETS is a photographic nonfiction companion book to the original bestselling title, THE MAGIC SCHOOL BUS LOST IN THE SOLAR SYSTEM. LOST IN THE SOLAR SYSTEM taught thousands of kids about the planets, moons, stars, and everything else you'd want to know about outer space. MAGIC SCHOOL BUS PRESENTS THE PLANETS will expand upon the original title with fresh, updated, Common Core aligned content about the amazing planets in our solar system. With vivid full-color photographs on each page as well as illustrations of the beloved Ms. Frizzle and her students, the Magic School Bus Presents series will enthrall a whole new generation of Magic School Bus readers.

Long before Galileo published his discoveries about Jupiter, lunar craters, and the Milky Way in the Starry Messenger in 1610, people were fascinated with the planets and stars around them. That interest continues today, and scientists are making new discoveries at an astounding rate. Ancient lake beds on Mars, robotic spacecraft missions, and new definitions of planets now dominate the news. How can you take it all in? Start with the new Encyclopedia of the Solar System, Second Edition. This self-contained reference follows the trail blazed by the bestselling first edition. It provides a framework for understanding the origin and evolution of the solar system, historical discoveries, and details about planetary bodies and how they interact—and has jumped light years ahead in terms of new information and visual impact. Offering more than 50% new material, the Encyclopedia includes the latest explorations and observations, hundreds of new color digital images and illustrations, and more than 1,000 pages. It stands alone as the definitive work in this field, and will serve as a modern messenger of scientific discovery and provide a look into the future of our solar system. · Forty-seven chapters from 75+ eminent authors review fundamental topics as well as new models, theories, and discussions · Each entry is detailed and scientifically rigorous, yet accessible to undergraduate students and amateur astronomers · More than 700 full-color digital images and diagrams from current space missions and observatories amplify the chapters · Thematic chapters provide up-to-date coverage, including a discussion on the new International Astronomical Union (IAU) vote on the definition of a planet · Information is easily accessible with numerous cross-references and a full glossary and index

Investigates the nature of the sun, the moon, the planets and other celestial bodies that make up our solar system.

What and how big is the solar system? Allow your child to find out the answers to these questions though the use of this very interactive and informative book. In the following pages, you will find pictures that come complete with colors and as few texts as possible just to encourage reading. Buy a copy of this book today!

Discusses our solar system, including its planets, moons, asteroids, comets, and more.

Never before have the wonders of our solar system been so immediately accessible to readers of all ages. This beautiful book presents a new and fascinating way to experience our planetary neighborhood. With hundreds of stunning photographs and graphics, as well as fascinating text by the award-winning writer and broadcaster, Marcus Chown, Solar System takes us on a whirlwind tour of the planets, dwarf planets, moons and asteroids that orbit our sun. From the surface of Mars to the rings of Saturn, from the volcanoes of Io to the latest images of Pluto from NASA's New Horizons probe, Solar System offers a window seat from which to view the science and beauty of space. Marcus Chown is an award-winning writer and broadcaster. Formerly a radio astronomer at the California Institute of Technology, he is now cosmology consultant for New Scientist magazine. He lives in London, England

"Meet Our Solar System" is a beautifully illustrated book filled with colorful photographs and interesting rhyming text on solar system for kids. This is a perfect book to give young children aged 4-8 years their first introduction to our solar system. It takes kids on a journey starting with the sun, then each planet in order, including the moon and the dwarf planets. Each object is accompanied with full-sized pictures showing vivid details. The text is divided into small blocks and separated by pictures to keep young readers interested. Children will enjoy vibrant images and learn the amazing facts about the solar system. Parents can read aloud to young children and early readers will find the text easy to understand and fun to read on their own.

Exploring the Solar System chronicles more than three decades of planetary exploration, revealing the solar system in all its colourful glory. At one time, the planets and moons of our solar system were elusive and distant worlds that shimmered tantalizingly through telescope eyepieces; today they are landscapes as vivid and real as those of our own planet. Robotic explorers on missions deep into space and new techniques of image processing have provided us with remarkably realistic views of planetary surfaces and have led to the visual bounty seen in this book. More than 300 of the finest pictures from the missions of NASA - including the latest discoveries from the Hubble Space Telescope - and the space agencies of Europe, Russia and Japan show us the planets, moons, comets, and asteroids, and the mighty Sun itself.

A guide to astronomy covers such topics as the Sun, the planets, galaxies, the big bang, and astrobiology, along with brief profiles of prominent figures in astronomy.

Part of an award-winning book series for children, this is the ultimate guide to our magnificent solar system and the astronauts who explore it. An entertaining, educational adventure for young readers. Engage the senses through vivid deep-space photography, cutaways and illustrations, quiz questions, and quirky fun facts. It's the perfect book for any kid who can't get enough of outer space! Supporting STEM-based learning, this fact-filled book for kids is perfect for ages 6-9 and contains key curriculum information. Although, age is but a number, don't let our recommendations put you off enjoying this absolute masterpiece of extraordinary astronomy! This kids educational book is so much more than just another book about space. It allows children to discover the mysteries of asteroids hurtling through space, comets lighting up the sky, and the biggest star in our glorious solar system, the Sun. It also explores the steps we've taken to study outer space, like launching the International Space Station. Not to mention the exquisite photographs of nearby planets, stars, and astronomical bodies and stunning details on each of Earth's neighboring planets, including fascinating

facts about their moons, mineral makeup, and more. While it's packed with a lot of information, it is presented in a way that can be read in snippets that are appropriate to any level of understanding and you can return to it over and over again to enjoy the majestic beast that is outer space in more detail. Vetted by educational consultants, the DKfindout! series drives kids ages 6-9 to become experts on more than 30 of their favorite STEM- and history-related subjects. Find out Amazing Facts About Our Solar System! What is the weather like on Jupiter? Which planet is the hottest? What are Saturn's remarkable rings made of? How long would it take to get to Pluto? Find out the answers to these questions and more in DKfindout! Solar System. This incredible book is packed with surprising facts and amazing pictures that are simply put, out of this world! From comets to craters, this book captures the beauty of our celestial system as best as one can without going into space itself. Explore the world of astronomy and travel our solar system as we know it today: -Explore Mars, Jupiter, Saturn and Pluto -Learn about Space rocks, ice giants, and an asteroid belt -Adventure through space ages, meet alien hunters and go beyond the solar system! Dkfindout! Solar System is one title in the Dkfindout! series of educational books for kids, and Silver award winner in the MadeForMums Awards 2017 children's books series category. Kids around the world are obsessed with this gorgeous collection, so much so that a range of massive DKfindout! posters for bedroom walls are sold separately. Add to your collection and nurture your little one's interest in the world. Other titles include DKfindout! Birds, Castles, Climate Change, Pirates, Coding, Ancient Egypt, Engineering, Reptiles and a whole lot more!

The activities in this book explain elementary concepts in the study of the solar system, including orbits, the sun, the moon and moon phases, planets, seasons, and day and night. General background information, suggested activities, questions for discussion, and answers are included. Encourage students to keep completed pages in a folder or notebook for further reference and review.

An introduction to our solar system, including information on the sun and moon, satellites and seasons, planets, comets, and asteroids.

Discover places where a day is longer than a year, where hailstones are made of diamonds, and where a mountain looms twice the size of Everest. These and more are all to be found in The Planets. The Sun's gravity holds in thrall eight planets, each with an entourage of moons, as well as dwarf planets, asteroids, and comets. The Planets takes you on a dazzling visual tour. From the Solar System's fiery heart, travel to rocky worlds such as tiny Mercury scorched by the Sun. Then witness Venus swathed in a sulfurous haze, and go to the outer reaches to visit planets such as gas giant Jupiter, which is 120 times the size of Earth. Using 3-D models and photography from NASA and the European Space Agency, The Planets describes each one, as well as the extraordinary endeavors of space exploration. Edited by space scientist Maggie Aderin-Pocock, this book is enthralling reading for everyone interested in astronomy and space exploration.

A practical introduction to our "corner" of the universe. Aimed at users of binoculars and small to medium telescopes, Solar System Observer's Guide describes how to observe not only the planets but also the moon, sun, comets, meteors, asteroids, and all other celestial objects found within our Solar System. Each chapter is devoted to a different object and explains how and when to find the object, how to observe it, what to expect to see, and how to record observations. Photographs, sketches, and digital images by both amateur and professional astronomers illustrate the book's pages. The easy-to-use guide also features: Best observation dates over the next 10 years Special events, such as eclipses and transits Up-to-date equipment and techniques Tips on dealing with difficult viewing conditions When to use special equipment More than 100 photographs, maps, and artworks Appendices, including notable phenomena to 2015 Glossary and resources. Suitable for use in the northern and southern hemispheres, Solar System Observer's Guide is a practical and colorful introduction to observing our universe.

This is the chapter slice "The Moon" from the full lesson plan "Solar System" Thrill young astronomers with a journey through our Solar System. Find out all about the Inner and Outer Planets, the Moon, Stars, Constellations, Asteroids, Meteors and Comets. Using simplified language and vocabulary, concepts such as planetary orbits, the asteroid belt, the lunar cycle and phases of the moon, and shooting stars are all explored. Chocked full of reading passages, comprehension questions, and hands-on activities, our resource is written for remedial students in grades five to eight. Science concepts are presented in a way that makes them accessible to students and easier to understand. Use our resource effectively for whole-class, small group and independent work. Color mini posters, Rubric, Crossword, Word Search, Comprehension Quiz and Answer Key are all included. All of our content meets the Common Core State Standards and are written to Bloom's Taxonomy and STEM initiatives.

Packed with real science and fueled by imagination, a beautifully illustrated guide to traveling in our solar system Imagine taking a hike along the windswept red plains of Mars to dig for signs of life, or touring one of Jupiter's sixty-four moons where you can photograph its swirling storms. For a shorter trip on a tight budget, the Moon is quite majestic and very quiet if you can make it during the off-season. Packed with full color illustrations and real-world science, Vacation Guide to the Solar System is the must-have planning guide for the curious space adventurer, covering all of the essentials for your next voyage, how to get there, and what to do when you arrive. Perfect for fans of Neil deGrasse Tyson's Astrophysics for People in a Hurry, this tongue-in-cheek reference guide is an imaginative exploration into the “What if” of space travel, sharing fascinating facts about space, the planets in our solar system, and even some moons!

The planets closest to the Sun—Mercury, Venus, Earth, and Mars—include the world we know and its closest neighbors. However, despite our proximity, these rocky, silicate-based planets still represent so many mysteries yet to discover. Through a trove of images and a narrative bursting with detail, The Inner Solar System imparts what is known about this small corner of the Galaxy, and piques reader interest in the unknown.

Learn about the eight planets and the Solar System through fun facts and adorable illustrations. Each planet is depicted as a fun character which reveals interesting space facts about itself. An educational picture book ideal for young children who want to learn about the planets and space. The ideal learning book for toddlers, children in preschool, kindergarten or a higher grade, for ages 2 through to 7.

Our Solar System (Sun, Moons & Planets) : Second Grade Science Series2nd Grade BooksSpeedy Publishing LLC

A companion to Solar System: A Visual Exploration of the Planets, Moons, and Other Heavenly Bodies that Orbit Our Sun, this beautiful photographic card deck features 100 different items from our solar system, from planets and moons, to asteroids, solar wind, and famous astronomers – one on each card – with a full-size image on the front and fascinating information on the back. The Photographic Card Deck of the Solar System is the most beautiful and detailed set of cards ever produced on the subject. The deck includes 156 5" x 5" cards, each covering a single topic, such as an individual planet or moon, asteroids, comets, gravity, the movement of the planets, solar wind, dwarf

planets, dark matter, and the possibility of life elsewhere, and more. The front side of each card features a full-size photograph while the back includes explanatory text and key scientific data illustrating the most important and interesting aspects of each topic. The cards are perfect for students, but they also make an excellent gift for scientists and adults who are fascinated by the beauty and complexity of space.