

50 Things To See With A Telescope A Young Stargaz

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50 Things to See in the Sky Sarah Barker 2019-10-01 This hip and handy guide helps you learn the science behind blue skies, sun dogs, and the solar eclipse, and shows you how to observe nocturnal wonders such as lunar halos, Martian ice caps, and far-off galaxies. Fifty celestial phenomena come to life with expert tips from astrophysicist Sarah Barker and stylish illustrations by Maria Nilsson. Any explorer can become an adept observer with their guidance, and more ambitious stargazers will be able to discover more distant sights with the help of binoculars, a telescope, or a local astronomy group. With a glow-in-the-dark cover, 50 Things to See in the Sky is a perfect complement to your next camping expedition and a wonderful gift for anyone who marvels at what lies in our celestial sphere.

50 Things to See with a Small Telescope John Read 2016-02-21 Japanese Edition of the Best Selling Book: 50 Things to See with a Small Telescope People love this book! 50 Things to See with a Small Telescope highlights the must-see objects observed at stargazing events all over the Northern Hemisphere. People of all ages frequently ask, "How did you find that so quickly?" Well, this book will explain just that! The planets in our solar system, the International Space Station, sunspots, birds, nebula, airplanes, and comets are just some of the items that his book will help you find! If you have been having difficulties enjoying your small telescope, this book is for you. There is something interesting about pretty much everything in outer space and it is exciting how many pop-culture references are derived from things in the night sky! Viewing the stars referenced in Star Trek, or talking about a character in Harry Potter named after a constellation, is just another way to make stargazing that much more fun! I am very excited to share my knowledge of astronomy and I am sure you will enjoy this book for years to come. By working through the 50 items in this book you will achieve a well-rounded understanding of amateur astronomy.

Russian Edition - 50 Things to See with a Small Telescope John Read 2016-03-28
50 Things to See with a Small Telescope explores the planets, stars, galaxies and nebulae observed from all over the northern hemisphere. Not only does this book demonstrate how to find things, it also shows what many of these objects look like through a small telescope! Here are just some of the items this book will help you find: * Planets * Nebulae * Comets * Globular Clusters * The International Space Station
I am very excited to share my knowledge of astronomy and I am sure you will enjoy this book for years to come.

Telescopes John DePace 2021-03-02 A telescope is an optical instrument using lenses, curved mirrors, or a combination of both to observe distant objects, or various devices used to observe distant objects by their emission, absorption, or reflection of electromagnetic radiation. Chocked full of objects like stars, galaxies, nebulae, and planets there are objects fit for anyone and any type of telescope. From small refractors up to larger Dobsonians, you will be able to see lots of objects using this book. It even includes objects viewable from both northern and southern hemispheres! This book gives you lots of ideas on making it easier for you to find the constellations. The book even has some constellation maps for different times of the year to give you a head start in locating them.

50 Things to See with a Telescope - Kids John A Read 2017-07-20 From the author of the bestselling book 50 Things to See with a Small Telescope, this colorful edition explores the constellations with young readers, guiding them to dozens of galaxies, nebulae, and star clusters. Every page features a helpful "telescope view," showing exactly how objects appear through a small telescope or binoculars. While a member of the Mount Diablo Astronomical Society in California, John Read taught thousands of students how to use telescopes and explore the night sky. Now, he's sharing this knowledge with you! Even without a telescope, this introduction to the night sky is essential for every child's collection.

50 Things to See on the Moon John A. Read 2019-04-30 Have you always wanted to explore the Moon like Neil Armstrong or the eleven other astronauts who have walked on its surface? You can tour the Moon from your own backyard with a small telescope or binoculars. This book will point you to the Sea of Tranquility (the landing spot for Apollo 11) and many other fascinating features you can spot on the Moon's surface. Beginning with the New Moon, as each day passes, an additional slice of the Moon becomes visible. With each new slice comes new craters, lunar seas and jagged mountain ranges. This easy-to-use, illustrated reference book enables everyone, young and old, to better appreciate our nearest neighbour in space.

Sky Gazing Meg Thacher 2020-10-27 This rich visual guide takes readers aged 9–14 on a journey through the Earth's solar system, around the galaxy, and into deep space to learn about the moon, sun, planets, stars, and constellations.

50 Things to see With a Telescope John A. Read 2018-09-25 John A. Read covers

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everything needed to identify constellations, planets, stars, galaxies, nebulae and more. Inquisitive stargazers will find planet hunting and star hopping easy with clearly plotted routes and images of the sky both as seen by the naked eye and detailed views from a telescope. Many fascinating cosmic objects can be easily spotted with the help of this book including beautiful Cassiopeia, regal Leo, the plentiful Kemble's Cascade, the explosive Crab Nebula, the rings of Saturn – even the moon! This easy to read, fully illustrated reference book will enrich every young person's experience of the skies above.

Astronomy Activity Book for Kids Aurora Lipper 2021-09-14 Explore planets, stars, and constellations with this "out of this world" educational activity book for kids ages 5-7 Space is awesome, and we can explore a lot of it from right here on Earth using our eyes, binoculars, and telescopes. In this interactive activity book, kids ages 5-7 get to be astronomers! Former NASA scientist Aurora Lipper leads an exciting journey through space, beginning with a tour of the planets and moons in our solar system. Next, kids visit the constellations and then zoom through the far reaches of the Milky Way galaxy. Along the way, they'll find amazing facts about the starry skies and get to color and draw, connect dots, find hidden objects, and have fun with word puzzles while improving math and reading skills. Astronomy Activity Book for Kids features: - 90+ educational activities: On-page games and cool facts about space allow for fun, independent learning - Simple stargazing projects: Learn how to find the Big Dipper, view meteor showers, and more with just the eyes, binoculars, or a small telescope - Easy and exciting to read: Beautiful space illustrations and simple explanations written for early readers

50 Targets for the Mid-Sized Telescope John Read 2017-05-15 Written as a follow up to 50 Things to See with a Small Telescope, containing virtually no overlap in content, 50 Targets for the Mid-Sized Telescope introduces the beginner stargazer to an assortment of astronomical wonders. With easy-to-follow star maps, unique for each target, the budding astronomer will explore the universe like never before. Each target has been carefully chosen to be observable in telescopes with apertures between four and eight inches. Most objects can be viewed from the suburbs in mildly light polluted conditions, with only a few noted exceptions requiring darker skies. On dark, moonless nights, most targets will be visible in small telescopes and binoculars too.

Fun Facts about Space - Easy Read Astronomy Book for Kids | Children's Astronomy & Space Books Baby Professor 2017-12-01 Normally, you'll be training really hard to become an astronaut who gets to experience what it's like to be in space. This book, however, presents a shortcut. You will be learning fun facts about space that will influence your imagination so you can "experience" space on your own. So what are you waiting for? Get a copy and enjoy the read today!

Ultimate Explorer Field Guide: Night Sky Howard Schneider 2016-10-20 Provides a guide for beginning stargazers, including sky maps and constellation charts, identification tips, and space facts and jokes.

50 Things to See with a Telescope John A Read 2021-02-09 This special edition of *50 Things to See with a Telescope* explains everything you need to jumpstart your journey in astronomy. Written specifically for those living south of the equator, you will learn how to identify constellations, planets, stars, galaxies, nebulae and more. To aid in your exploration, this book provides images of the sky as seen by the naked eye and as viewed through a telescope. Note: If you live in the Northern Hemisphere, consider *50 Things to See with a Telescope: A young Stargazer's Guide*.

50 Things to See with a Small Telescope (Southern Hemisphere Edition) John Read 2016-03-25 A special edition for aspiring astronomers living south of the equator. This special edition of *50 Things to See with a Small Telescope* explores the planets, stars, galaxies and nebulae observed from all over the southern hemisphere. Not only does this book demonstrate how to find things, it also shows what many of these objects look like through a small telescope! Here are just some of the items this book will help you find: * Planets * Nebulae * Comets * Globular Clusters * The International Space Station I am very excited to share my knowledge of astronomy and I am sure you will enjoy this book for years to come.

National Geographic Backyard Guide to the Night Sky, 2nd Edition Andrew Fazekas 2019-03-19 Explore the star-studded cosmos with this fully updated, user-friendly skywatcher's guide, filled with charts, graphics, photographs, and expert tips for viewing -- and understanding -- the wonders of space. Stargazing's too much fun to leave to astronomers. In these inviting pages, "Night Sky Guy" Andrew Fazekas takes an expert but easygoing approach that will delight would-be astronomers of all levels. Essential information, organized logically, brings the solar system, stars, and planets to life in your own backyard. Start with the easiest constellations and then "star-hop" across the night sky to find others nearby. Learn about the dark side of the moon, how to pick Mars out of a planetary lineup, and which kinds of stars twinkle in your favorite constellations. Hands-on tips and techniques for observing with the naked eye, binoculars, or a telescope help make the most out of sightings and astronomical phenomena such as eclipses and meteor showers. Photographs and graphics present key facts in an easy-to-understand format, explaining heavenly phenomena such as black holes, solar flares, and supernovas. Revised to make skywatching even easier for the whole family, this indispensable guide shines light on the night sky--truly one of the greatest shows on Earth!

The Night Sky Giles Sparrow 2017-12-15 On any clear night, the night sky offers an ever-changing display of fascinating objects, visible to the naked eye: stars, constellations, bright planets, the moon, human-made satellites, and sometimes even meteor showers or the International Space Station. With gorgeous high-definition imagery and a wealth of charts, graphs, and infographics, readers will find here what is visible in the night sky at various times of the year and from what locations around the world. They will learn what additional objects they can see with the help of telescopes, binoculars, and sky maps. Also featured are skywatching terms and night sky observing tips.

Glow-In-The-Dark Constellations C. E. Thompson 1999-01-25 An innovative guide filled with glow-in-the-dark illustrations aids youngsters in locating more than thirty stars and star groups

50 Things to See with a Small Telescope John A. Read 2017-05-22 *50 Things to See with a Small Telescope* explores the planets, stars, galaxies, and nebulae observed from all over the northern hemisphere. This book includes easy-to-follow star maps, and updated eclipse charts for years 2017 to 2030. With the new "telescope view" feature, you will see how objects appear when viewed through a small telescope. - Publisher's description.

Assessment of Options for Extending the Life of the Hubble Space Telescope
National Research Council 2005-02-28 The Hubble Space Telescope (HST) has operated continuously since 1990. During that time, four space shuttle-based service missions were launched, three of which added major observational capabilities. A fifth "SM-4" was intended to replace key telescope systems and install two new instruments. The loss of the space shuttle Columbia, however, resulted in a decision by NASA not to pursue the SM-4 mission leading to a likely end of Hubble's useful life in 2007-2008. This situation resulted in an unprecedented outcry from scientists and the public. As a result, NASA began to explore and develop a robotic servicing mission; and Congress directed NASA to request a study from the National Research Council (NRC) of the robotic and shuttle servicing options for extending the life of Hubble. This report presents an assessment of those two options. It provides an examination of the contributions made by Hubble and those likely as the result of a servicing mission, and a comparative analysis of the potential risk of the two options for servicing Hubble. The study concludes that the Shuttle option would be the most effective one for prolonging Hubble's productive life.

Night Sky With the Naked Eye Bob King 2016-11-08 Understand and Enjoy the Wonders of the Stars with Fun Activities for the Whole Family Gain a deeper appreciation of the universe and our place in it with *Night Sky with the Naked Eye*. Learn how to spot the International Space Station, follow the moon through its phases, forecast an aurora and watch a meteor shower along with traditional night sky activities such as identifying the bright planets, stars and constellations. Fun activities embrace modern technology with the best apps and websites that make it easy for anyone to observe the greatest spectacles of the sky without a telescope or other expensive equipment. An expert in his field, Bob King teaches night sky courses and makes cosmic mysteries practical and accessible for skywatchers new and old. Understand what makes stars twinkle and where meteors come from in this complete guide to the heavens. Unique illustrations and stunning photos help the reader understand the concepts presented. Tips on how to photograph satellites, eclipses and the aurora are also included. Unravel the secrets of the universe while deepening your appreciation of its beauty through this clear and concise guide.

100 Things to See in the Night Sky, Expanded Edition Dean Regas 2020-06-16 Discover the amazing wonders of the night sky with this expanded edition to 100

Things to See in the Night Sky, perfect for every amateur stargazer and armchair astronomer! Keep your feet on the ground and experience the night sky to the fullest by exploring planets, satellites, and constellations with this all-inclusive reference guide to space. 100 Things to See in the Night Sky, Expanded Edition is full of information on the many amazing things you can see with a telescope, or just your naked eye! From shooting stars to constellations and planets to satellites, this book gives you a clear picture of what you can see on any given night. Learn about the celestial bodies that have captured people's imaginations for centuries, with specific facts alongside traditional myths and beautifully illustrated photographs and star charts that will help you know where to look for the best view. With this illuminating guide, you'll enjoy hours of stargazing, whether you're travelling, camping, sitting in your back yard, or simply flipping through the beautiful images in this book.

110 Things to See With a Telescope John Read 2021-08 This book and a telescope are all you need to find, view, and record your observations of the most popular stargazing targets. But what makes this list so famous? Over 200 years ago, the French comet hunter Charles Messier published a list of fuzzy, comet-like objects he saw through his telescope. To him, they were a nuisance. We now know them as star clusters, nebulae, and galaxies! Modern astronomers later expanded his list from 103 to 110 objects - and they're some of the finest celestial sights to explore with your backyard telescope, especially after you're ready to move beyond the Moon and planets. This book is your guide to seeing each deep sky object in Messier's list - plus a complete how-to for budding astronomers. Finding the 110 Messier (pronounced Messy-ay) objects has never been easier! We provide a star map for each target - plus written directions for how to find it by star-hopping, an "eyepiece view" image to confirm you're seeing it, observing tips from two veteran stargazers, and interesting facts. We also highlight additional nearby objects. These objects are presented in their recommended viewing order - either by season, or during an all-night marathon! Each page contains an observation log so you can track your progress, and later apply for a Messier Observing Certificate from the Astronomical League and the Royal Astronomical Society of Canada. Certificate Application instructions are provided in the appendix of the book.

The Book of Constellations Robin Kerrod 2002-01-01 This fascinating narrative recounts the history of astronomy and, with more than 100 full-color illustrations, it shows readers how to find the planets and constellations in the night sky. In ancient times, people thought that the Sun, Moon, and stars were gods. They recorded their movements and imagined that the stars made pictures in the sky. The Greeks and the Romans related these "pictures" of animals and men--or constellations--to their legends. They also identified planets and named them for their gods--Venus, Mars, Saturn, and Jupiter. Their observations marked the first step in the development of astronomy, which today is a sophisticated science. Modern astronomers have followed the tradition of naming heavenly bodies after ancient gods. For instance, the solar system's outer planets weren't identified until after the telescope's invention, but with their discoveries they were named after Uranus, a Greek god of the sky . .

. Neptune, the Roman god of the sea . . . and Pluto, the Roman god of the underworld. The author recounts the legends connected with many constellations, including Aquarius, Aries, Cancer, Orion, and others. This beautifully illustrated book helps readers navigate their way around the night sky as they learn the significance of heavenly bodies' names. Color photos and illustrations throughout.

50 Things to See with a Telescope - Kids John Read 2017-06-20 From the author of the bestselling book *50 Things to See with a Small Telescope*, this colorful edition explores the constellations with young readers, guiding them to dozens of galaxies, nebulae, and star clusters. Every page features a helpful "telescope view", showing exactly how objects appear through a small telescope or binoculars.

Star Maps for Beginners I.M. Levitt 1992-09-01 The author's maps, which divide the sky into quadrants, and explanations of the constellations are designed to simplify study for the amateur astronomer

50 Things to See with a Telescope: Activity Workbook John Read 2020-06-02 This workbook provides over fifty unique stargazing challenges, allowing you to track your progress and record your observations. Stargazers are encouraged to sketch what they see, from lunar craters to globular star clusters. Learn how to set up and focus any type of telescope, and align a finderscope. Simple exercises will help you calculate your telescope's magnification, focal ratio, and more. This workbook is designed for any experience level, from the extreme beginner, to the seasoned astronomer looking for a new outreach tool. Whatever your background in astronomy, you'll find something to love within these pages.

50 Things to See with a Small Telescope (Southern Hemisphere Edition) John A Read 2017-05-28 This special edition has been designed specifically for aspiring astronomers living south of the equator. This book explores the planets, stars, galaxies and nebulae observable from the southern hemisphere. Not only does this book illustrate how to observe, it also shows how each object appears through a small telescope!

Visual Astronomy of the Deep Sky Roger N. Clark 1990 Atlas over de vigtigste galakser og nebuloser, som kan ses i teleskop af amatørastrofysiker.

The Everything Kids' Astronomy Book Kathi Wagner 2008-04-01 Explore the galaxies! Aliens, space ships, and constellations, oh my! Ride on a rocket ship to another galaxy with this stellar book. With *The Everything Kids' Astronomy Book*, astronomers-in-training will learn: How galaxies like the Milky Way were built. Why the sun's surface is 20,000-50,000-degrees Fahrenheit. Why the earth spins and how gravity works. What comets and asteroids are made of and how they affect planets. The truth about the man in the moon. Why Mars is so hot and what those rings around Saturn are. What scientists think about aliens and life in outer space If you want to build a sky-watching kit or change your room into a small universe, this book will take you on a journey that is out-of-this-

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world!

Constellations for Kids Kelsey Johnson 2021-10-19 Over thousands of years, stargazers have noticed shapes in the stars, also called constellations. Different cultures have seen mythical animals and heroes within these constellations, and many travelers have used the stars as a guide for their journeys. This book will show young astronomers how to read the night sky as they discover more than 20 unique constellations. From Canis Major to Cassiopeia, each constellation includes easy-to-check sky maps with bright illustrations and guidance on the direction and how high from the horizon you'll need to look. You'll also find step-by-steps on how to use other stars to guide the way, plus a look at the mythology behind each constellation.

50 Things to See in the Sky Sarah Barker 2019-06-06 A beautifully presented, practical gift guide to 50 sights in the skies above us – complete with a glow-in-the dark front cover. Explained with fascinating, easy-to-understand commentary from astrophysicist and science communicator, Sarah Barker, and illustrated throughout with captivating drawings by Maria Nilsson, each guide helps you locate an incredible sight. The book is divided into three main sections – and whether you use the naked eye, a telescope, or fall into a black hole of online research, you'll discover the limitless wonder of the skies – from otherworldly phenomena on Earth like sun dogs, to planets, moons, stars, lunar craters and galaxy clusters. Naked Eye: Learn how navigators travelled in the past by finding the North Star; say hello to our astronauts and learn how to spot the International Space Station; see a red supergiant star (Betelgeuse); and find out more about solar eclipses. Further Afield: Find out more about the next closest galaxy, Andromeda; learn about the discovery of Saturn's 'ears' (or rings!); spot an alien storm that's as big as the Earth; and track 'Little Green Men' and ice volcanoes. Far, Far Away: Learn how baby stars are created by the Pillars of Creation; marvel at the Hubble Deep Field; and unearth the brightest things in our universe, quasars. The book also includes advice on ideal conditions for observing the stars, telescopes and binoculars, and navigating the skies. With extra tips and a rundown of useful tools, you'll find everything you need to get out there and look up!

Deep-Sky Companions: The Caldwell Objects Stephen James O'Meara 2016-09-30 Featuring stunning images, updated observations and astrophysical descriptions, this is ideal for observers in search of a new challenge.

50 Animals That Have Been to Space Jennifer Read 2020-03-06 Since the early days of flight, animals have helped researchers learn how to survive in the sky, and their role continues as humanity voyages into outer space. In 1783, a rooster, a duck and a sheep were placed in a basket attached to the first hot-air balloon. In the age of rockets and space travel, many more animals have travelled into orbit, and most have returned safely to earth. This book tells the stories of 50 trips into space, with details about the animals and the scientists involved. The experiments, often designed by students, originate from many countries. The book offers an appealing introduction to the purposes

of space exploration and the possibilities of safe space travel. It encourages young readers to engage in real science like the young people they will read about in this book.

Astronomy For Kids: Planets, Stars and Constellations - Intergalactic Kids Book Edition Baby Professor 2017-02-15 Here's the little book with big information on planets, stars and constellations. You'd say it's a pretty book because majority of it is composed of brilliant pictures. There are texts, still, to encourage a child to practice reading and comprehension. This is a good book to add to your mini-library collection at home. You can also pair it with your child's official textbooks. Secure a copy now!

Telescopes for Kids Vanessa Thomas 2021-04-27 Explore the mysteries of the night sky with the Junior Scientists series for kids ages 6 to 9 Scan the skies for 40 incredible sights with a book that shows budding scientists how to use a telescope for kids. You'll learn how to choose a telescope, set it up, and seek out the wonders of the Northern Hemisphere, from the Big Dipper to the Whirlpool Galaxy. Detailed visual guides--Illustrations of each star, planet, and more make them easier to spot-- and once you can identify the major ones, you can use them to find others with any telescope for kids. Outer space school--Discover what time of year it's easiest to see different objects in the sky, the life cycle of a star, how galaxies are cataloged, and more! Fun facts--Find out where the constellations get their names and why looking at the stars means you're actually looking back in time! See what's happening out in the cosmos with this guide to making the most of a telescope for kids.

A Child's Introduction to the Night Sky (revised and Updated) Michael Driscoll 2004 This charming exploration of the night sky -- featuring a star finder and glow-in-the-dark stickers -- which has more than a quarter of a million young astronomers enjoying the night sky in countries around the world, is now completely revised and updated. A Child's Introduction to the Night Sky is the perfect introduction to the always fascinating world of astronomy. Children ages eight and up will find out what astronomers have learned (and are still discovering), what astronauts and scientists explore, and what they can find by gazing up into the sky at night. Author Michael Driscoll explains how stars are born, the achievements of the great scientists, the history of space exploration, the story of our solar system, the myths behind the constellations, how to navigate the night sky, and more. Whimsical color illustrations throughout and handy definitions and sidebars help engage younger readers and develop their interest. Also included are a nifty star finder tool and fun glow-in-the-dark stickers.

See It with a Small Telescope Will Kalif 2017-12-26 Have fun exploring the stars with close-up views of space objects right from your own backyard! Take the mystery and struggle out of discovering new worlds. With hands-on tips, tricks, and instructions, this book allows you to unleash the full power of your small telescope and view amazing space objects right from your own backyard, including: • Saturn's Rings • Jupiter's Moons • Apollo 11's Landing

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Site • Orion Nebula • Andromeda Galaxy • Polaris Double Star • Pegasus Globular Cluster • and much, much more! “An observation guide, mentor, and historical tour all in one.” –Space.com

Astronomy with a Home Telescope Seth Penricke 2015-08-15 See What's Out There To experience the greatest show on Earth, all you have to do is look up. Whether you're stargazing from a bustling city or a small-town backyard, Astronomy with a Home Telescope helps you deepen your appreciation of the diverse, dazzling constellations--with either a home telescope or a pair of binoculars. Ideal for budding astronomers to astronomy buffs, Astronomy with a Home Telescope provides the origin and history behind the celestial bodies and how they came to be in space. Featuring full-color photos, easy-to-follow chapters, and helpful resources, this introductory guide will deepen every astronomy enthusiast's know-how of the night sky. Get set for stargazing, with: Informative profiles of the 50 most common astronomy objects, from the Moon to Mars to Venus, plus fun astronomy pop culture references A double-page spread featuring a clear schedule of solar and lunar eclipses Budget-friendly tips for viewing with the naked eye or binoculars Expert tips for cleaning and maintaining low- or high-powered telescopes Expand your horizons. Astronomy with a Home Telescope is the ideal companion for exploring the cosmos.

Astronomy for Kids Bruce Betts 2021-09-21 One of the coolest things about outer space is that anyone can explore it. Using plain sight, binoculars, or a small telescope, Dr. Betts shows young stargazers how easy it is to explore space, just by stepping outside and looking up. Full color.

Astronomy with a Home Telescope: The Top 50 Celestial Bodies to Discover in the Night Sky Seth Penricke 2015-08-16 See What's Out There To experience the greatest show on Earth, all you have to do is look up. With a simple home telescope, an astronomy novice can see the rings of Saturn, comets, asteroids, and nebulae. But even the bravest astronomy buffs know better than to explore outer space without a guide. That's why everything you need to marvel at the stars is here in Astronomy at a Glance. Exciting profiles of 50 astronomy objects in the night sky Clear directions to locate each astronomy object with a home telescope Astronomy origin stories, scientific examples, and pop culture references Expert astronomy advice on using and cleaning your telescope Complete schedule of solar and lunar eclipses Astronomy at a Glance is the best way to discover our distant neighbors in the cosmos.