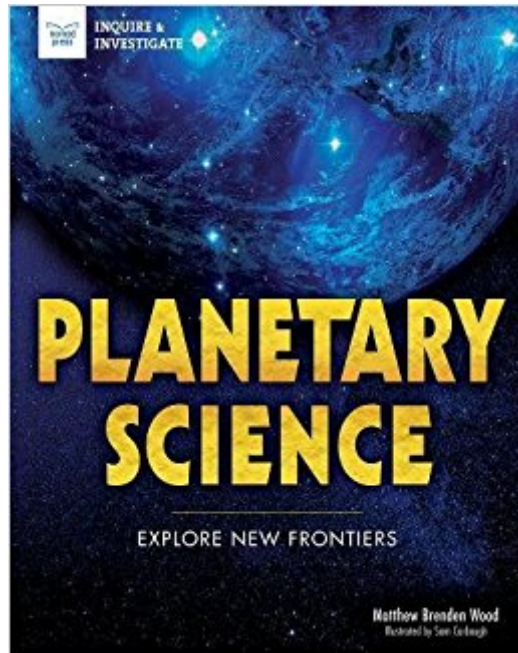




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Planetary Science: Explore New Frontiers (Inquire & Investigate)



Synopsis

What do you see when you look up into the sky at night? The moon, stars, maybe even a comet or asteroid? You can also see other planets! In *Planetary Science: Explore New Frontiers*, readers ages 12 to 15 embark on a journey through the solar system and beyond, exploring planets, moons, dwarf planets, exoplanets and everything in-between. For many ancient cultures, planets were mysterious objects that moved against the backdrop of the heavens in strange but predictable patterns. Ever since Galileo Galilei first used a telescope to explore the moons of Jupiter, we've known that the planets are much more than mysterious points of light in the night sky. With the creation of incredible technologies such as space probes, giant ground-based telescopes, and Earth-orbiting observatories, we've learned that Mars once had water on its surface, that Jupiter's Great Red Spot has been churning for centuries, and that thousands of exoplanets circle distant suns. Planetary science is also exciting because of what we don't know. Was there ever life on Mars? Is Planet Nine lurking in the outer reaches of the solar system? Will we ever find another Earth? How far can we go? In *Planetary Science*, readers examine the latest information on Pluto, the discoveries of the Mars rover Curiosity, and the incredible catalog of distant planets uncovered by the Kepler Space Telescope. They learn about how planets are formed and why they travel on their orbits. Planets, those pinpricks of light you might spot on a clear night, come closer through informative illustrations, links to online primary sources, illuminating sidebars and fun facts, and hands-on, in-depth activities, such as building scale models of planets, hunting for alien worlds through citizen science, and crafting a comet in the kitchen. *Planetary Science* also promotes critical thinking skills through inquiry, discovery, and research by encouraging readers to explore questions that remain unanswered, such as whether Mars once had life or the possibility of a ninth planet hiding in the furthest reaches of the solar system. With discoveries being made almost every day, it's an exciting time to be a planetary scientist!

Book Information

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Age Range: 12 - 15 years

Grade Level: 7 - 9

Customer Reviews

Astronomy: Cool Women in Space: School Library Connection January 2016 Most readers have not heard of the brilliant women covered in this series, though all were innovators and contributors to their fields. Each of the remarkable women featured in these well-written titles had to overcome obstacles to succeed in traditionally male careers; each is a strong STEM role model for young women today. Readable and accessible to students, the books are beautifully designed with color, graphics, comic illustrations, boxes, and short paragraphs. Teachers will be thrilled with the plentiful primary sources included as QR codes that will immediately engage their classes. "Ask and Answer" essential questions intrigue one to think more deeply and "She Says" quotations inspire young scientists to persevere. A treasure trove of discovery, this interactive series promises to influence the next generation of female science stars. Glossary. Timeline. Index. Highly

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Lyle Tavernier, STEM education specialist, space educator –“The solar system is a vast place. For the budding space enthusiast looking to take a deeper dive into the oceans of Saturn’s moons or explore beyond Neptune into the Kuiper belt, Planetary Science: Explore New Frontiers is a great resource. Matthew Brenden Wood has created a book filled with facts that will help shed light on some of the lesser-known, but fascinating, parts of the solar system. It might even inspire young scientists to pursue a career in planetary science!”

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