

Earth and space

The student knows that the natural world includes the air around us and objects in the sky. The student is expected to:

- (A) record weather information, including relative temperature, such as hot or cold, clear or cloudy, calm or windy, and rainy or icy;
- (B) observe and record changes in the appearance of objects in the sky such as clouds, the Moon, and stars, including the Sun;
- (C) identify characteristics of the seasons of the year and day and night; and
- (D) demonstrate that air is all around us and observe that wind is moving air.

This list of resources, or Pathfinder, shall be used to aid in the research of Earth and Space lessons.

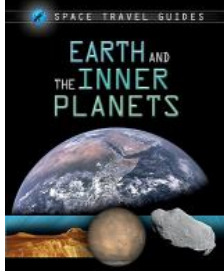
BOOKS



West, K. (2002). *Hands on Projects about Earth & Space*. New York, NY: The Rosen Publishing Group.

The hands-on projects in this book teach kids how to make a star map, measure Earth's gravity, look at the Moon-even how to make a model of the entire solar system. The mix of fact-filled text and projects with concise, step-by-step instructions is sure to engage students as they discover the wonders of Earth and space.

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Pathfinder Assignment



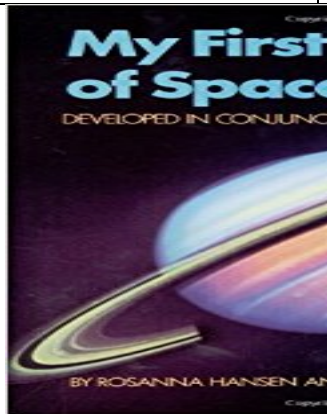
Giles, Sparrow. (1970) *Earth and the Inner Planets*.

Prepare yourself for the trip of a lifetime as we blast off and explore the wonders of the cosmos. These travel guides will give you the essential facts, on the places you visit, what not to miss, and what hazards, to look out for. Meet the planets that are nearest the Sun. These include Mercury, whose surface is blasted by the solar furnace, and Venus, with its thick atmosphere of poisonous gas. We will also visit Mars, with its chasms and volcanoes, and of course, our Earth with its solitary satellite, the Moon. Book jacket.



Price, B. J. (2014). *Earth Space Moon Base*. New York, NY: Random House Children's Book.

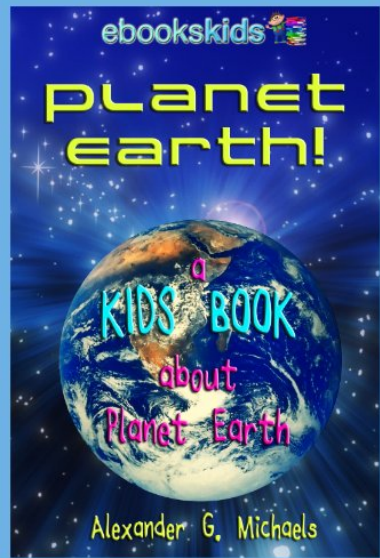
An unlikely trio lands on a planet and keeps the inhabitants at bay using bananas.



Bell, R. A., & Hansen, R. (1985). *My First Book of Space*. Norfolk, VA: Simon & Schuster Books for Young Readers.

An informative first book about our solar system with full-color photographs selected from NASA's archives.

Audio Book



Michael, A. G. (2013). *Planet Earth! A Kid's Book About Planet Earth*.

This book is filled with vivid, wonderful photographs that will show up great on Kindles, iPads, tablets and PCs. This children's ebook will make learning for kids a fun experience.

Online References-Articles

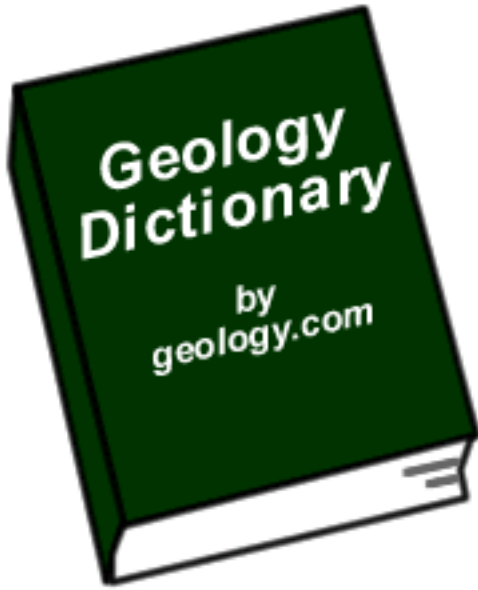


<http://www.pkearthandspace.com/static/publicabout>

PowerKnowledge Earth & Space Science is an online resource specifically designed for learners in grades 3 to 6. Comprised of curriculum correlated content, PowerKnowledge Earth & Space Science promotes digital literacy and 21st century learning skills, while offering research, report, and homework help.

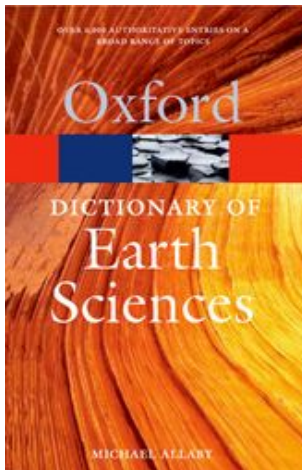
Dictionary

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<http://geology.com/geology-dictionary.shtml>

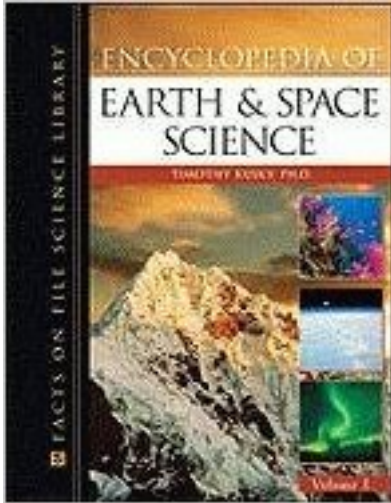
This is an online, geology dictionary with earth science terminology and definitions.



Allaby, M. (2008). *Dictionary of Earth Sciences*. Oxford, England: Oxford University Press.

The third edition of this leading dictionary offers wide-ranging and authoritative coverage of the earth sciences and related topics, including geology, oceanography, paleontology, mineralogy, volcanology, and planetary science as well as climatology, geochemistry, and petrology

Encyclopedia



Krusky, T. (2010). *Encyclopedia of Earth and Space Science, 2-volume set.*

Based on the NSES Content Standards, this comprehensive new reference emphasizes the physical processes involved in the formation and evolution of the Earth and universe, describes many examples of different types of geological and astrophysical phenomena, provides historical perspectives, and gives insight into the process of scientific inquiry by incorporating biographical profiles of people who have contributed significantly to the development of the sciences.

Databases



Wiley, J. (2017). Earth and Space is Essential for Society. *Agu Publications*. Retrieved October 1, 2017, from [http://agupubs.onlinelibrary.wiley.com/hub/issue/10.1002/\(ISSN\)2333-5084.SCISOC1/](http://agupubs.onlinelibrary.wiley.com/hub/issue/10.1002/(ISSN)2333-5084.SCISOC1/)

Space for **Kids!** **ESA Kids** features space news, information, games, animations and downloads for **kids**aged between 6 and 12.

Video [DVD]

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	<p style="text-align: center;"><u>Earth from space [videorecording]</u></p> <p>Riddick, I. (Director). (2012). <i>Earth from Space</i>[Motion picture on DVD].</p> <p>Earth From Space is a groundbreaking two-hour special that reveals a spectacular new space-based vision of our planet. Produced in extensive consultation with NASA scientists, this special takes data from earth-observing satellites and transforms them into dazzling visual sequences, each one exposing the intricate and surprising web of forces that sustain life on earth.</p>
	<p><i>Space Flight Collection</i>[Motion picture on DVD]. (n.d.). Discovery Studios for Discovery Channel .</p> <p>See some of the most extraordinary missions in space exploration, to destinations such as Saturn's moon, Titan. Also, view the all-familiar walk on the moon in a whole new light.</p>