

## WHAT IS SPACE?

Space is an area. From our point of view, as Earthlings, it starts about 100 kilometers (60 miles) above our planet Earth. Up there, beyond our atmosphere, there is no air to breathe or to allow light to pass through. In that area, blue becomes black because there are not enough oxygen molecules to make the sky blue. Furthermore, space is a vacuum. This means that sound cannot travel because molecules are not close enough together to transmit sound between them. That's not to say that space is empty, however. Gas, dust and other bits of matter float around "emptier" areas of the universe, while in more crowded regions there are planets, stars and galaxies. No one knows exactly how big space is. The difficulty arises because of what we can see through our telescopes and other devices. We measure long distances in space in "light years." A light year represents the distance it takes for light to travel in a year and that is about 5.8 trillion miles, or 9.3 trillion kilometers. From light that is visible in our telescopes, we have charted galaxies reaching almost as far back as the Big Bang, which is thought to have started our universe 13.7 billion years ago. This means we can "see" into space to a distance of almost 13.7 billion light-years. However, astronomers are not sure if our universe is the only universe that exists. There may be more universes! This means that space could be a lot bigger than it appears to us and certainly, bigger than we can imagine. And then, the big question: what comes after Space? More Space, I guess!



Adapted from the Internet

★ Read the passage and then answer the following questions in full sentences:

1. Where does Space begin, from our point of view? \_\_\_\_\_
2. Who are 'Earthlings'? \_\_\_\_\_
3. Why would humans not be able to breathe in Space? \_\_\_\_\_
4. Why does Space look black and not blue? \_\_\_\_\_
5. What is a vacuum? \_\_\_\_\_
6. What is there in the 'emptier' parts of Space? \_\_\_\_\_
7. What is there in more crowded areas of Space? \_\_\_\_\_
8. Which is the biggest: a planet, a star or a galaxy? \_\_\_\_\_
9. How big is Space? \_\_\_\_\_
10. How do we measure distance in Space? \_\_\_\_\_
11. When did the Big Bang happen? \_\_\_\_\_
12. What are astronomers not sure about? \_\_\_\_\_
13. What is the big question, according to this author? \_\_\_\_\_

★ If you had the chance to go up into Space, would you take it? Why or why not?

# Space Read About Science

**Ben Agger**



## Space Read About Science:

**Reading Science** Ben Agger, 1989 To find more information about Rowman and Littlefield titles please visit [www.rowmanlittlefield.com](http://www.rowmanlittlefield.com)

**When You Look Up at the Moon** Allan Fowler, 1994 From friendly dolphins to giant pandas from icebergs and glaciers to energy from the sun from magnets to solids liquids and gases Rookie Read About Science is a natural addition to the primary grade classroom with books that cover every part of the science curricula Includes animals nature scientific principles the environment weather and much more

**Space: Planets, Moons, Stars, and More!** Joe Rhatigan, 2016-05-24 Learn about our solar system in this Step 3 Science Reader packed with NASA photos and space facts Step into Reading the most trusted name in early readers delivers an introduction to the final frontier that kids can read themselves For up to date information including about Pluto and its fellow dwarf planets and stellar photos and illustrations kids eager for mind blowing nonfiction need look no further Step 3 Readers feature engaging characters in easy to follow plots about popular topics They are ideal for children who are ready to read on their own

*Reading Science Fiction* James Gunn, Marleen Barr, Matthew Candelaria, 2018-01-19 Science Fiction is illuminated by world class scholars and fiction writers who introduce the history concepts and contexts necessary to understanding the genre Their groundbreaking approach provides insights into today's SF world and makes learning how to read Science Fiction an exciting collaborative process for teachers and students

**The Philippine Journal of Science**, 1923 A memorial number was issued with v 7

**Elements of General Science** Otis William Caldwell, William Lewis Eikenberry, Earl R. Glenn, 1920

*Is There Life in Outer Space?* Franklyn M. Branley, 1986-04-18 Are there furry creatures on the moon Or Martians who ride spaceships to Earth Today we know Martians don't exist but we also know that plants and animals may live far beyond our solar system Franklyn M Branley's fascinating text and Edward Miller's zany illustrations tap into kids curiosity to give a dazzling tour of life out among the stars Updated with new photos of Mars and a Find Out More page full of hands on activities This is a lighthearted yet serious introduction to the concept of life on other planets It stretches the imagination by asking questions about life off Earth and then attempts to answer them Whimsically illustrated descriptions of old theories give a light touch to some pretty odd ideas In stark contrast to these colorful drawings are the black and white photographs of astronauts and the surfaces of the moon and Mars showing the absolute lack of life so far uncovered SLJ A Reading Rainbow Selection

**PISA The PISA 2003 Assessment Framework Mathematics, Reading, Science and Problem Solving Knowledge and Skills** OECD, 2004-03-02 The PISA 2003 Assessment Framework presents the conceptual underpinning of the PISA 2003 assessments Within each assessment area the volume defines the content that students need to acquire the processes that need to be performed and the contexts in which knowledge and skills are applied

**Science**, 1930 *Reading the Universe Through Science, Religion and Ethics* South African Science and Religion Forum. Seminar, 1999

*Science Abstracts*, 1920

**Rocket Science for the Rest of Us** Ben Gilliland, 2015-04-07 Unsure about the big scientific ideas of

today This book is full of cutting edge concepts about space and our Universe made simple The media reports on the latest scientific discoveries and breakthroughs can seem like an alien language from black holes to dark matter and exoplanets to leap seconds Finally get to grips with these difficult concepts by reading Ben Gilliland s unique take on them Rocket Science for the Rest of Us takes complex scientific ideas and breaks them down for the non scientist from explaining the size of the Universe to how black holes work Schroedinger s cat and the Higgs boson Difficult ideas and theories are compared to everyday things we are familiar with forces become armies and electrons have personalities This book will have you saying I get it now over and over again You no longer have to be a rocket scientist to understand rocket science Reviews Detailed diagrams are one of the book s strongest points as they provide the clearest explanations of difficult physics concepts

Booklist Mining Science ,1907 PISA 2012 Assessment and Analytical Framework Mathematics, Reading, Science, Problem Solving and Financial Literacy OECD,2013-02-11 This book presents the conceptual framework underlying the fifth cycle of PISA which covers reading science and this year s focus mathematical literacy along with problem solving and financial literacy **School Science and Mathematics** ,1925 *The Popular Science Monthly* ,1891 **Library of Universal Literature: Science (15 vols.)** ,1901 *English Mechanic and World of Science* ,1892 *Today's Basic Science* John Gabriel Navarra,Joseph Zafforoni,1963 *Lippincott's Magazine of Popular Literature and Science* ,1879

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