



## Educator Resource List for Upper Elementary and Middle School

### Juvenile Fiction:

The following are a selection of upper elementary and middle grade novels that focus on space as the setting or overall theme.

- *Ambassador* by William Alexander. [JF Alexander William]
- *Astrotwins: Project Blastoff* by Mark E. Kelly. [JF Kelly Mark Bk 1]
- *Big Game* by Dan Smith. [JF Smith Dan]
- *Fortunately, the Milk* by Neil Gaiman. [JF Gaiman Neil]
- *George's Cosmic Treasure Hunt* by Lucy & Stephen Hawking. [JF Hawking Lucy Bk 2]
- *George's Secret Key to the Universe* by Lucy & Stephen Hawking. [JF Hawking Lucy Bk 1]
- *Life on Mars* by Jennifer Brown. [JF Brown Jennifer]
- *The Little Prince* by Antoine de Saint-Exupery. [JF Saint-Exupery Antoine de]
- *One Small Step* by Philip Kerr. [JF Kerr P B]
- *The Outer Space Mystery* by Gertrude Warner. Series: Boxcar Children Mysteries; Bk 59 [JF Warner, Gertrude]
- *Space Boy* by Orson Scott Card. [JF Card Orson Scott]
- *Spaced Out: A Moon Base Alpha Novel* by Stuart Gibbs. [JF Gibbs Stuart]
- *The Strange Case of Origami Yoda* by Tom Angleberger. [JF Angleberger Tom Bk 1]
- *A Wrinkle in Time* by Madeleine L'Engle. [JF L'Engle Madeleine]

### Juvenile Nonfiction:

The following are a selection of general nonfiction texts for upper elementary and middle school readers that have a focus on space and space exploration.

- *Astronaut: Life as a Scientist and Engineer in Space* by Ruth Owen. [JNF 629.45 OWE]
- *How to Build a Planet: A Step-by-Step Guide to Building the Earth* by Scott Forbes. [JNF 550 FOR]
- *Little Kids First Big Book of Space* by Catherine D. Hughes. [JNF 520 HUG]
- *Look to the Stars* by Buzz Aldrin. [JNF 629.409 ALD]
- *The Magic School Bus: Lost in the Solar System* by Joanna Cole and Bruce Degen. [523.3 COL]
- *The Magic School Bus Sees Stars: A Book About Stars* by Nancy White. [JNF 523.8 WHI]
- *The Mighty Mars Rovers: The Incredible Adventures of Spirit and Opportunity* by Elizabeth Rusch. [JNF 523.43 RUS]
- *Moon: Science, History, and Mystery* by Stewart Ross. [JNF 523.3 ROS]
- *Moonshot: The Flight of Apollo 11* by Brian Floca. [JNF 629.45 FLO]
- *Night Sky: Watching the Universe Outside Your Window* by Giles Sparrow. [JNF 520 SPA]
- *Pluto's Secret: An Icy World's Tale of Discovery* by Margaret A. Weitekamp and David DeVorkin. [JNF 523.49 WEI]
- *Space Exploration: Primary Sources* by Peggy Saari. [JNF 629.4 SAA]
- *The Space Race* by Peter Benoit. [JNF 629.4 BEN]
- *Totally Wacky Facts About Exploring Space* by Emma Carson Berne. [JNF 629.13 BER]
- *Welcome to Mars: Making a Home on the Red Planet* by Buzz Aldrin. [JNF 523.43 ALD]

These nonfiction resources focus on the history of space exploration and discovery, including biographies of astronauts or other prominent figures in space exploration.

- *Almost Astronauts: 13 Women Who Dared to Dream—The True Story of the 'Mercury 13' Women* by Tanya Lee Stone. [JNF 629.45 STO]
- *Ellen Ochoa* by Christine Juarez. [ENF 92 Ochoa Ellen]
- *Great Scientists* by Jacqueline Fortey. [JNF 509.2 FOR]
- *Hidden Figures: Young Readers' Edition*. by Margo Lee Shetterly. [Coming soon to BPL]
- *Look Up! Henrietta Leavitt, Pioneering Woman Astronomer* by Robert Burleigh. [JNF 92 Leavitt Henrietta]
- *Mae Jemison* by Luke Colins. [ENF 92 Jemison Mae]
- *Mars Science Lab Engineer Diana Trujillo* by Kari A. Cornell. [JNF 92 Trujillo Diana]
- *Reaching for the Moon* by Buzz Aldrin. [JNF 92 Aldrin Buzz]
- *Sally Ride* by AnnMarie Anderson. [JNF 92 Ride Sally]
- *Sally Ride and the Shuttle Missions* by Andrew Langley. [JNF 629.45 LAN]
- *Who is Neil Armstrong?* by Roberta Edwards. [JNF 92 Armstrong Neil]
- *Women in Science* by Macmillan Profiles. [JNF 920 MAC]
- *Women in Science: 50 Fearless Pioneers Who Changed the World* by Rachel Ignatofsky. [Coming soon to BPL]

This next list features a selection of "star stories," or narratives surrounding the constellations in the night sky.

- *Celebrate Chinese New Year* by Carolyn Otto. [JNF 394.261]
- *The Constellation Orion: The Story of the Hunter* by Arnold Ringstad. [JNF 523.8 RIN] \*Part of a series\*
- *Constellations: A Guide to the Night Sky* by Chris Sasaki. [JNF 523.8 SAS]
- *Coyote in Love with a Star* by Marty Kreipe De Montano. [Coming soon to BPL]
- *Everything Mythology* by B. A. Hoena. [JNF 201 HOE]
- *The Race for the Chinese Zodiac* by Gabrielle Wang. [JNF 398.2 WAN]
- *How Raven Stole the Sun* by Maria Williams. [Coming soon to BPL]
- *Keepers of the Night: Native American Stories and Nocturnal Activities for Children* by Michael J. Caduto and Joseph Bruchac. [Coming soon to BPL]
- *Treasury of Norse Mythology* by Donna Jo Napoli. [JNF 293.13 NAP]
- *Trickster: Native American Tales-A Graphic Collection*. [JGR 398.2 DEM]

BPL also has a selection of print resources that feature activities to use in the classroom - the following have a focus on space and astronomy.

- *Astronaut Academy* by Steve Martin. [JNF 629.4 MAR]
- *Beyond the Solar System: Exploring Galaxies, Black Holes, Alien Planets, and More—A History with 21 Activities* by Mary Kay Carson. [JNF 520.9 CAR]
- *Easy Space Origami* by Christopher Harbo. [JNF 736.982 HAR]
- *Explore Night Science! With 25 Great Projects* by Cindy Blobaum. [JNF 508.078 BLO]
- *Projects with Space* by Louise Spilsbury. [JNF 745.59 SPI]
- *The Poetry of Science: The Poetry Friday Anthology for Science for Kids* compiled by Sylvia Vardell and Janet Wong. [JNF 808.81 VAR]

A popular format with young readers, the following are graphic novels that feature space as a main theme or setting.

- *The Amazing Story of Space Travel* by Agneiszka Biskup. [JGR 629.4 BIS]
- *Astronauts* by David West. [JGR 629.45 WES]

- *Hide and Seek Moon: The Moon Phases* by Robin Koontz. [JGR 523.3 KOO]
- *The History of Flight* by Gary Jeffrey. [JGR 629.13 JEF]
- *Incredible Space Missions* by Gary Jeffrey. [JGR 629.45 JEF]
- *T-Minus: The Race to the Moon* by Jim Ottaviani. [JGR.4502 OTT]

### Bentonville Public Library's Online Resources

Bentonville Public Library also offers a variety of online resources for young learners covering a wide-span of content areas. Below is a selection of material on space available on these resources. All are available through BPL's Student Portal: <http://www.bentonvillelibrary.org/student-portal/>

#### **K-4 PebbleGo:**

Biographies—

"John 'Danny' Olivas." *PebbleGo*. [www.pebblego.com](http://www.pebblego.com). December 29, 2016.

"Galileo." *PebbleGo*. [www.pebblego.com](http://www.pebblego.com). December 29, 2016.

"Maria Mitchell." *PebbleGo*. [www.pebblego.com](http://www.pebblego.com). December 29, 2016.

#### **K-4 World Book Online for Kids:**

"Herschel, Caroline Lucretia." *World Book Kids*. World Book, 2016. Web. 29 Dec. 2016.

"Space exploration." *World Book Kids*. World Book, 2016. Web. 29 Dec. 2016.

"Space race." *World Book Kids*. World Book, 2016. Web. 29 Dec. 2016.

#### **5-6 The Encyclopedia of Arkansas History and Culture:**

"Arkansas Sky Observatories." *The Encyclopedia of Arkansas History & Culture*. 29 Dec. 2016.

<http://www.encyclopediaofarkansas.net/encyclopedia/entry-detail.aspx?search=1&entryID=6626>

"Herbert Earle Buchanan." *The Encyclopedia of Arkansas History & Culture*. 29 Dec. 2016.

<http://www.encyclopediaofarkansas.net/encyclopedia/entry-detail.aspx?search=1&entryID=6626>

#### **5-6 ProQuest CultureGrams:**

"China: Holidays." *CultureGrams Online Edition*, ProQuest, 2016,

[http://online.culturegrams.com/world/world\\_country\\_sections.php?cid=34&cn=China&sname=Holidays&snid=16](http://online.culturegrams.com/world/world_country_sections.php?cid=34&cn=China&sname=Holidays&snid=16)

#### **General: NovelList Plus [Book reviews for teachers]**

NovelList is the premiere database of reading recommendations, available through libraries around the world. NovelList's expert recommendations mean that you'll always get high quality results to help find just the right books.

#### Other Online Resources:

Library staff have curated a list of other resources that are available online that may prove helpful when working with young learners on space topics.

- Brian Jungen: Strange Comfort exhibition, "Crux (As seen from those who sleep on the surface of the earth under the night sky)," <http://www.nmai.si.edu/exhibitions/jungen/crux.html#crocodile>
- Decoding Mars: <http://qrius.si.edu/do/decoding-mars>
- Living Maya Time: Sun, Corn, and the Calendar: <http://maya.nmai.si.edu/>
- Lone Dog's Winter Count: [http://nmai.si.edu/sites/1/files/pdf/education/poster\\_lone\\_dog\\_final.pdf](http://nmai.si.edu/sites/1/files/pdf/education/poster_lone_dog_final.pdf)
- NASA Design Challenges: <https://www.nasa.gov/feature/space-poop-challenge>
- NASA Education: Women in STEM: <https://www.nasa.gov/education/womenstem>

- NASA International Space Station: [https://www.nasa.gov/mission\\_pages/station/main/index.html](https://www.nasa.gov/mission_pages/station/main/index.html)
- NASA Jet Propulsion Laboratory: <http://www.jpl.nasa.gov/>
- NASA Kennedy Space Center: <https://www.nasa.gov/centers/kennedy/home/index.html>
- NASA Spinoff: NASA Technologies Benefit Our Lives: [https://spinoff.nasa.gov/Spinoff2008/tech\\_benefits.html](https://spinoff.nasa.gov/Spinoff2008/tech_benefits.html)
- Smithsonian National Air and Space Museum: <https://airandspace.si.edu/>
- "The True Story of 'Hidden Figures,' the Forgotten Women Who Helped Win the Space Race," Smithsonian Magazine, <http://www.smithsonianmag.com/history/forgotten-black-women-mathematicians-who-helped-win-wars-and-send-astronauts-space-180960393/>

### Explore Space Exhibit Information:

Explore Space: A Cosmic Journey, a traveling exhibition for libraries, is part of the STAR Library Education Network (STAR\_Net) led by the National Center for Interactive Learning at the Space Science Institute. Exhibit partners include the American Library Association, the Lunar and Planetary Institute, and Afterschool Alliance. Explore Space is supported through a grant from the National Science Foundation.



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