

Science, Technology, Engineering Math Books For High School Girls

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This list is divided into the following sections: Biographies of women in these occupations, historical and contemporary, books about teens engaging in any of the four areas, books on these topics written for the general public (or especially for teens) that are enjoyable to read, classics in the field of science writing and fiction. Titles have been selected from lists created by the American Library Association's Young Adult Library Services Division, the National Science Teachers Association and the New York Public Library's Office of Young Adult Services. Titles that are out of print will be identified as (OP).

- Titles from the Books for the Teen Age List will have a superscript 1
- Titles from the NSTA book list will have a superscript 2
- Titles from YALSA's Best Books for Young Adults will have a superscript 3
- Titles from YALSA's Alex Awards will have a superscript 4
- Titles from YALSA's Outstanding Books for the College Bound will have superscript 5

Collective Biographies

Dash, Joan
The Triumph of Discovery. (OP)
Julian Messner, ©1991
Biographies of Noble Prize winning women scientists

Fara, Patricia
Scientists Anonymous: Great Stories of Women in Science
Wizard Books, ©2007

McGrayne, Sharon Betsch
Nobel Prize Women in Science. (OP)
Carol Publishing Group, ©1993

Celebrating Women in Mathematics
National Council of Teachers of Mathematics, ©1996

Ogilvie, Marilyn Bailey
Women in Science.
MIT Press, ©1986

Osen, Lynn M.
Women in Mathematics.
MIT Press, ©1974

Sullivan Otha Richard
African American Women Scientists and Inventors.
Wiley, ©2002

Yount, Lisa
A to Z of Women in Science and Math.
Facts on File, ©1999

Yount, Lisa
Contemporary Women Scientists. (OP)
Facts on File, ©1994

Biographies

Bortz, Alfred B.

Beyond Jupiter.

Franklin Watts, ©2005

Biography of Heidi Hammel, planetary astronomer

Byers, Nina and Gary Williams (eds.)

Out of the Shadows: Contributions of Twentieth-Century Women to Physics

Cambridge University Press, ©2006

Glimm, Adele

Gene Hunter.

Franklin Watts, ©2005

Biography of Nancy Wexler, neuropsychologist

Gormley, Beatrice

Maria Mitchell: The Soul of an Astronomer^{1,5}

Eerdmans Books for Young Readers, 2004,

Hopping, Lorraine Jean

Bone Detective.⁵

Franklin Watts, ©2005

Biography of forensic anthropologist Diane France

Jemison, Mae

Find Where the Wind Goes.

Scholastic Press, ©2001

Autobiography of astronaut, Mae Jemison

Keller, Evelyn Fox

A Feeling for the Organism.

Henry Holt, 1984

Biography of Barbara McClintock

Maddox, Brenda

Rosalind Franklin.

HarperCollins, ©2002

Sayre, Anne

Rosalind Franklin and DNA.
Norton, ©1975

Skelton, Renee
Forecast Earth.
Franklin Watts, ©2005
Biography of Inez Fung, climate scientist

Tyson, Neil DeGrasse
The Sky is Not the Limit.¹ (OP)
Doublday, ©2000
Tyson is obviously not a woman, but he is a NYC figure, who had to overcome prejudice against minorities in the field of astrophysics and is currently director of the Hayden Planetarium

Woolley, Benjamin
The Bride of Science. (OP)
McGraw-Hill, ©1999
Biography of Ada Lovelace

Zissner, Judith
La Dame d'Esprit: A Biography of Marquise Du Chatelet
Viking Adult, ©2006

Popular Books

Ackmann, Martha

The Mercury 13.

Random House, ©2003

The first women who trained to be astronauts

Atkins, Jeannine, illustrated by Dusan Petricic

Wings and Rockets.

Farrar, Straus & Giroux, ©2003

Women pioneers in aviation

Bodanis, David

Electric Universe.

Crown Publishers, ©2005

The stories behind the discoveries and inventions we use daily

Bodanis, David

The Secret Family. (OP)

Simon & Schuster, ©1997

The chemical interactions, and microorganisms, in a family's daily life

Bunch, Bryan H.

The Kingdom of Infinite Number.¹

W. H. Freeman & Co., ©2000

All about the numbers we use every day

Ceci, Stephen J. and Wendy M. Williams

Why Aren't More Women in Science?: Top Researchers Debate the Evidence

American Psychological Association, ©2006

Craig, Emily A.

Teasing Secrets from the Dead.¹
Crown Publishers, ©2004
A forensic anthropologist describes cases she has worked on

Deem, James M.
Bodies from the Ash.^{1,3,5}
Houghton Mifflin, ©2005
Exploring Pompeii

Dendy, Leslie A.
Guinea Pig Scientists.^{1,5}
Henry Holt & Co., ©2005
Scientists who experimented on themselves

Farrell, Jeanette
Invisible Allies:^{1,3,5}
Farrar, Straus & Giroux, ©2005
Microbes that help instead of hurt mankind

Fleischman, John
Phineas Gage: A Gruesome but True Story About Brain Science^{1,3,5}
Houghton Mifflin, ©2002
What a tragic accident taught us about the brain

Guillen, Michael
Five Equations that Changed the World.¹
Hyperion, 1996, ©1995
The stories of Newton, Bernoulli, Faraday, Clausius and Einstein and their discoveries written by a wonderful story teller

Haynesworth, Leslie and David Toomey
Amelia Earhart's Daughters.
W. Morrow, ©1998
The history of women aviators

Kallner, Donna Jackson
Bone Detectives.¹
Little, Brown, ©1996
How forensic anthropologists solve crimes and uncover mysteries of the dead

King, Michael R.
Who Killed King Tut?¹
Prometheus Books, ©2004
Using forensic science to solve a 3,300 year old mystery

Newitz, Annalee and Charlie Anders (eds.)

She's Such a Geek: Women Write About Science, Technology, and Other Nerdy Stuff
Seal Press, ©2006

Newquist, H.P.
The Great Brain Book^{1,5}
Scholastic Reference, ©2004
Brain structures, functions, diseases, treatments

Ofri, Danielle
Singular Intimacies¹
Penguin, 2004, ©2003
Becoming a doctor at Bellevue

Ofri, Danielle
Incidental Findings¹
Beacon Press, ©2005
Lessons learned from patients for a new doctor

Roach, Mary
Stiff^{1,4,5}
Norton, ©2003
How medical and research scientists use human cadavers

Skurzynski, Gloria
Are We Alone?⁵
National Geographic Society, ©2004
Scientists search for life in space and explain why they love their work

Sullivan, George
Built to Last^{1,5}
Scholastic, ©2005
America's bridges, tunnels, dams and skyscrapers

Waldbauer, Gilbert.
Insight from Insects¹
Prometheus, ©2005
Profiles of 20 insects and what they've taught us

Watts, Ruth
Women and Science: A Social and Cultural History
Routledge, ©2007

Books about Teens

Flannery, Sarah

In Code.^{1,5}

Algonquin Books, 2002, ©2001

A teenager's explorations in the science of cryptography

Kettlewell, Caroline

Electric Dreams.¹

Carroll & Graf, 2006, ©2004

A team of high school girls and boys convert a gas guzzler into an electric car

Olson, Steve

Count Down.¹

Mariner Books, 2005, ©2004

American teens compete in the International Mathematical Olympiad

Pletka, Bob

My So-Called Digital Life.¹

Santa Monica Press, ©2005

2,000 teenagers, 300 cameras, 30 days to document their world

Fiction Titles

Butler, Octavia

Kindred.¹

Beacon Press, 2004, ©1979

Time travel novel by America's premier African American woman science fiction writer

Bradshaw, Gillian

The Sand Reckoner.^{1,4,5}

Forge, 2001, ©2000

Historical fiction about mathematician Archimedes

Cooney, Caroline B.

Code Orange.^{1,5}

Delacorte Press, ©2005

Mitty finds an envelope containing 100 year old smallpox scabs while doing research for a biology paper

Enzensberger, Hans
The Number Devil.^{1,5}
Henry Holt, 2000, ©1998
Learning about math through dreams

Golden, Christopher
Body of Evidence. (series—some volumes OP)
Pocket Books, 1999-
This mystery series features Jenna Blake, a college freshman who works at the medical examiner's office

Hobbs, Will
Wild Man Island.⁵
Trophy, 2003 ©2002
14 year old Andy, lost in Alaska

Werlin, Nancy
Double Helix.^{1,3}
Puffin, 2005, ©2004
His job at a genetics lab leads Eli to discover secrets about his family and himself

Zettel, Sarah
The Quiet Invasion.¹ (OP)
Warner, ©2000
*Science fiction set on the surface of Venus and on an orbiting space station.
(All of the main characters are women.)*

Selected Classic Science Titles

Carson, Rachel
Silent Spring.¹
Houghton Mifflin, 2002
The book that challenged the use of pesticides

De Kruif, Paul
Microbe Hunters.
Harvest Books, 2002, ©1926
History of bacteriology, highlighting the work of Leeuwenhoek, Pasteur, Koch, etc

Sagan, Carl
Cosmos.
Ballantine, 1993, ©1980
Companion book to the TV series that introduced the general public to space science

Thomas, Lewis
Lives of a Cell.

Penguin, 1995, ©1974

Essays that appeared in the New England Journal of Medicine