
Selected Bibliography

Biographies

Fiction

Informational Resources

Professional Resources

Departmental Publications

Selected Bibliography

This list of resources is provided as a starting point for teachers looking for learning resources that support the *Inventions, Innovations, and Discoveries* interdisciplinary unit.

Although these resources have not been reviewed, teachers can access most of the titles in the holdings of Manitoba Education, Citizenship and Youth's Instructional Resources Unit (IRU) Library at 1181 Portage Ave., Winnipeg, Manitoba. Visit the IRU online catalogue at: <http://library.edu.gov.mb.ca:4100/>.

The videos listed in the bibliography are available either through IRU or, in the case of electricity-related videos, through Manitoba Hydro at: <http://www.hydro.mb.ca>.

The selected resources are organized under the following headings/categories:

- Biographies
- Fiction
- Informational Resources
- Professional Resources
- Departmental Publications

Biographies

To find biographies appropriate for the *Inventions, Innovations, and Discoveries* interdisciplinary unit, consider subjects such as discoverers in the field of science, scientists, and inventors.

The asterisk (*) denotes Canadian content.

Print

*Barkhouse, Joyce. *Abraham Gesner*. Don Mills, ON: Fitzhenry and Whiteside, 1980.

This biography tells the life of Canadian inventor and geologist, Abraham Gesner.

*Black, Harry. *Canadian Scientists and Inventors: Biographies of People Who Made a Difference*. Markham, ON: Pembroke, 1997.

*Carpenter, Thomas. *Inventors: Profiles in Canadian Genius*. Camden East, ON: Camden, 1990.

Casey, Susan. *Women Invent: Two Centuries of Discoveries That Have Shaped Our World*. Chicago, IL: Chicago Review Press, 1997.

Casey uses short biographies of women inventors around the world to demonstrate how inventions come about.

Di Domenico, Kelly. *Super Women in Science*. Toronto, ON: Second Story, 2002.

Gold, Rebecca. *Steve Wozniak: A Wizard Called Woz*. Minneapolis, MN: Lerner, 1996.

In his parents' garage, Steve Wozniak designed the first personal computer. He and his friend Steve Jobs went on to create the Apple II.

*Hacker, Carlotta. *Inventors*. Calgary, AB: Weigl, 2000.

---. *Scientists*. Niagara-on-the-Lake, ON: Crabtree, 1998.

Hacker chronicles the lives and achievements of noted female scientists, including astronomer Jocelyn Bell Burnell, primatologist Dian Fossey, and anthropologist Margaret Mead.

Halacy, Daniel Stephen. *Charles Babbage, Father of the Computer*. New York, NY: Crowell-Collier, 1970.

This biography relates the life and inventions of Charles Babbage, who came up with the machine that evolved into today's computer.

Hargrove, Jim. *An Wang: Computer Pioneer*. Chicago, IL: Children's Press, 1993.

An Wang invented the magnetic memory core that changed the computer industry. His company Wang Laboratories produced the first computer.

Harris, Laurie Lanzen, ed. *Biography Today: Scientists and Inventors*. Profiles of People of Interest to Young Readers Series. Detroit, MI: Omnigraphics, 1996.

Hayden, Robert C. *9 African American Inventors*. Frederick, MD: Twenty-First Century, 1992.

This book chronicles the achievements of nine Afro-Americans responsible for inventions related to important parts of modern life, such as refrigeration, electric lighting, and transportation.

The How It Works Encyclopedia of Great Inventors and Discoveries. Ed. D. Clarke. London, UK: Marshall Cavendish, 1978.

Kendall, Marta E. *Steve Wozniak: Inventor of the Apple Computer*. New York, NY: Walker, 1994.

Krensky, Stephen. *Breaking into Print: Before and after the Invention of the Printing Press*. Toronto, ON: Little, Brown, 1996.

Krensky describes the nature of books in the world before the development of the printing press and the subsequent effect of that invention on civilization.

Lampton, Christopher. *Thomas Alva Edison*. New York, NY: Franklin Watts, 1988.

Although Edison was kicked out of school for being lazy, his inventions range from the light bulb to the telegraph.

Lord, Athena V. *Pilot for Spaceship Earth: R. Buckminster Fuller, Architect, Inventor, and Poet*. New York, NY: Macmillan, 1978.

This is a biography of R. Buckminster Fuller, the architect and inventor whose investigations into the principles of nature influenced his designs and helped revolutionize our world.

McGrayne, Sharon Bertsch. *Nobel Prize Women in Science: Their Lives, Struggles and Momentous Discoveries*. New York, NY: Carol, 1993.

Metcalf, Doris Hunter. *Portraits of Exceptional African American Scientists*. Carthage, IL: Good Apple, 1994.

Morgan, Nina. *Guglielmo Marconi*. New York, NY: Franklin Watts, 1991.

Marconi developed the telegraph, a piece of equipment that could send messages without wires. He laid the groundwork for the wireless communication that we use today.

Moris, Stephen. *Edward Jenner*. New York, NY: Franklin Watts, 1992.

In this book, Edward Jenner's biography and his development of the smallpox vaccine is retold, along with explanations of how vaccinations and our immune system work.

Parker, Steve. *Galileo and the Universe*. New York, NY: Harper Collins Children's Books, 1992.

During the late 1500s and mid 1600s, Galileo worked as a mathematician, astronomer, and inventor. This book includes photographs, drawings, and a timeline of science, politics, and art of Galileo's lifetime.

---. *Thomas Edison and Electricity*. New York, NY: Chelsea House, 1995.

*Precious, Carole. *Thomas Carbide Willson*. Don Mills, ON: Fitzhenry and Whiteside, 1980.

Reef, Catherine. *Albert Einstein, Scientist of the 20th Century*. London, UK: Macmillan Children's Book Group, 1991.

Einstein's theories revolutionized the way we think about time, space, light, gravity, and the entire universe. His life story is written and illustrated in this book.

Richards, Norman. *Dreamers and Doers: Inventors Who Changed the World*. New York, NY: Atheneum, 1984.

Four inventors, Charles Goodyear (vulcanized rubber), Robert Goddard (rocketry), Thomas Edison (electrical devices), and George Eastman (photography), tell their stories.

Rozakis, Laurie. *Steven Jobs: Computer Genius*. Vero Beach, FL: Rourke, 1993.

Steve Jobs and Steve Wozniak developed the Apple computer that changed the way people use and think about computers.

Sachs, Marianne. *Leonardo and His World*. Morristown, NJ: Silver Burdett, 1980.

*Shell, Barry. *Great Canadian Scientists*. Victoria, BC: Polestar, 1997.

St. Pierre, Stephanie. *Gertrude Elion: Master Chemist*. Vero Beach, FL: Rourke, 1993.

When Gertrude Elion's grandfather died of cancer, she decided to study chemistry and find a cure for cancer. Her research led her to discover a drug called Imuran, useful for organ transplants.

Streissguth, Thomas. *Communications: Sending the Message*. Minneapolis, MN: Oliver, 1997.

This author discusses the scientists and inventors responsible for the advances in communications technology, including Johann Gutenberg, Samuel Morse, Thomas Edison, and Philo Farnsworth.

Swanson, June. *David Bushnell and His Turtle: The Story of America's First Submarine*.

London, UK: Macmillan Children's Book Group, 1991.

America's first submarine was the invention of a Connecticut farmer named David Bushnell. He created an underwater craft made of wood and called it the Turtle.

Sydney, Elliot N. *Celebrating Black Scientists and Inventors*. Toronto, ON: Village, 1992.

Taylor, Richard L. *First Flight: The Story of the Wright Brothers*. New York, NY: Franklin Watts, 1990.

On a blustery day in 1903, the Wright Brothers fulfilled the human dream of flying. This book relates the history of the Wright Brothers' invention of flight and explains the basic principles of flight.

*Towle, Wendy. *The Real McCoy: The Life of an African-American Inventor*. New York, NY: Scholastic, 1993.

This biography is about the Canadian-born Elijah McCoy, who studied engineering in Scotland and patented over 50 inventions despite the obstacles he faced because of his race.

Vare, Ethlie Ann. *Women Inventors and Their Discoveries*. Minneapolis, MN: Oliver, 1993.

Meet 10 women who beat the odds and changed the world with their inventions.

*Webb, Michael. *Alexander Graham Bell, Inventor of the Telephone*. Mississauga, ON: Copp, Clark, Pitman, 1991.

---. *Alfred Nobel, Inventor of Dynamite*. Mississauga, ON: Copp, Clark, Pitman, 1991.

*---. *Alice Wilson, Telling the Earth's Story*. Mississauga, ON: Copp, Clark, Pitman, 1991.

This book tells the life of Canadian geologist and paleontologist Alice E. Wilson.

*---. *Armand Bombardier, Inventor of the Snowmobile*. Mississauga, ON: Copp, Clark, Pitman, 1991.

*---. *David Suzuki, Superstar of Science*. Mississauga, ON: Copp, Clark, Pitman, 1991.

*---. *Frederick Banting, Discoverer of Insulin*. Mississauga, ON: Copp, Clark, Pitman, 1991.

*---. *Helen Sawyer Hogg: A Lifetime of Stargazing*. Mississauga, ON: Copp, Clark, Pitman, 1991.

This book tells the life of Canadian astronomer Helen Sawyer Hogg.

---. *Louis Pasteur, Disease Detective*. Mississauga, ON: Copp, Clark, Pitman, 1991.

---. *Marie Curie, Discoverer of Radium*. Mississauga, ON: Copp, Clark, Pitman, 1991.

*---. *Maude Abbott, Studying Blue Babies*. Mississauga, ON: Copp, Clark, Pitman, 1991.

This book tells the life of Canadian physician and heart specialist Maude Abbott.

*---. *Norman Bethune, Doctor under Fire*. Mississauga, ON: Copp Clark Pittman, 1993.

This is a biography of Canadian surgeon Norman Bethune.

*---. *Reginald Fessenden, Radio's Forgotten Voice*. Toronto, ON: Copp, Clark, Pitman, 1991.

Zickgraf, Ralph. *William Gates: From Whiz Kid to Software King*. Ada, OK: Garrett Educational, 1992.

Bill Gates was only 15 years old when he started his own company with his friend Paul Allen. After dropping out of Harvard, he and Allen joined up again to form a new company called The Microsoft Corporation, which revolutionized software for the personal computer.

Videocassettes

Arts and Entertainment Network. *The Extraordinary Voyages of Jules Verne*. Videocassette. Arts and Entertainment Television Network, 1995.

This videocassette profiles the life and times of Jules Verne, whose imagination and creativity established the field of science fiction in the nineteenth century and foreshadowed the scientific fact of the twentieth.

Perkins, Jack. *Thomas A. Edison: Father of Invention*. Videocassette. Arts and Entertainment Network, 1996.

This videocassette profiles the life and times of Thomas Edison, the inventor who patented more than 1100 inventions in over 60 years, among them the incandescent electric lamp, the phonograph, and the motion picture camera.

Smith, Harry. *Eureka! The 20th Century's Top 15 Inventors*. Videocassette. Arts and Entertainment Television Networks, 2002.

Transatlantic Films Production and Distribution Company Ltd. *The Television Explosion*. Videocassette. Transatlantic Films, 1997.

Using archival footage, this program examines the life of David Sarnoff, a poor Russian immigrant, who was the first person to recognize the financial and commercial potential of television.

Fiction

To find titles appropriate for novel studies related to the *Inventions, Innovations, and Discoveries* interdisciplinary unit, consider works about inventions, discoveries, achieving success through cooperation, stories of survival in the wild, and works of science fiction. Some titles are listed below.

The asterisk (*) denotes a Canadian author and/or Canadian content.

Print

Alcock, Vivian. *The Monster Garden*. New York, NY: Bantam, 1988.

Frankie Stein experiments with some goo from her father's genetic engineering lab and creates a strange green creature with gleaming red eyes.

Asimov, Isaac, Martin Harry Greenberg, and Charles Waugh, eds. *Wild Inventions*. Toronto, ON: Raintree Publishers, 1981.

The writers in this collection of four stories try to imagine what the future will be like with a new invention.

*Bell, William. *Crabbe*. Toronto, ON: Stoddart, 1992.

This is a story about 18-year-old Franklin Crabbe, who packs his gear and disappears into the woods. Unprepared for wilderness life, he almost dies, but then he meets Mary, someone else with reasons to hide.

*Bradford, Karleen. *Wrong Again, Robbie*. Richmond Hill, ON: Scholastic-TAB, 1983.

In this story, Robbie and his grandfather, unable to agree on anything, are forced to pull together after an accident in the northern woods.

Buller, Jon, and Susan Schade. *20,000 Baseball Cards under the Sea*. Toronto, ON: Random House, 1991.

Roger's friend Kenneth uses an unusual sea vehicle of his own design to take them to an underwater cave where a cache of old loot gathered by the old mermaids turns out to contain a lot of very valuable old baseball cards.

Byars, Betsy. *The Blossoms and the Green Phantom*. New York, NY: Delacorte, 1987.

Disasters befall the Blossom family as Pap falls into a dumpster and can't get out, Junior tries desperately to make a success of his secret invention, and Vern dreads letting a new friend meet his unusual family.

*Clark, Joan. *The Hand of Robin Squires*. Toronto, ON: Stoddart, 1994.

This book relates the adventures of Robin Squires, a young boy growing up in England as he becomes involved with the mystery of buried treasure on Oak Island.

Defoe, Daniel. *Robinson Crusoe*. Mineola, NY: Dover, 1998.

Dafoe recounts the story of an Englishman who is the sole survivor of a shipwreck and who lives nearly 30 years on a deserted island.

Duffy, Betsy. *The Gadget War*. New York, NY: Penguin, 1991.

When Kelly Sparks has a problem, she invents a gadget to fix it. Her latest problem is rival inventor Albert Einstein Jones, and the two whiz kids try to out-invent each other.

Getz, David. *Almost Famous*. New York, NY: Henry Holt, 1992.

Maxine knows that she will be an inventor some day. She has already invented invisible ink, ear protectors, and a device to make babies walk. She needs a partner to win the Inventions of Children contest but her pushy ways haven't made her very popular.

Giff, Patricia Reilly. *Snaggle Doodles*. New York, NY: Knopf, 1985.

Emily has a lot of work to do. She is worried that the group in which she is placed will be the worst in the class, and she has only a few days to think of a wedding present for Mr. Vincent, the student teacher. Can she and her group learn to work together in time?

Haas, Dorothy F. *Burton's Zoom Zoom Va-Room Machine*. London, UK: Macmillan Children's Books, 1990.

Burton Knockwurst is working on an invention that will change the face of transportation—a flying skateboard! This book offers adventures in aerodynamics and rocketry.

Harrell, Janice. *The Great Egg Bust*. New York, NY: Simon & Shuster, 1993.

Paul and his Grade 4 team build an egg protector that will keep an egg from breaking in a fourth-grade science Olympiad.

Hoover, H.M. *Orvis*. New York, NY: Penguin, 1990.

In the far distant future, Toby and Thaddeus are attending boarding school on Earth, when they discover an obsolete robot named Orvis. These three get lost in "The Empty," the wilderness that Earth has become.

*Houston, James. *Frozen Fire*. New York, NY: Aladdin, 1992.

Determined to find his father who has been lost in a storm, a young boy and his friend brave wind storms, starvation, wild animals, and wild men during their search in the Canadian Arctic.

*Hughes, Monica. *Hunter in the Dark*. Toronto, ON: General Paperbacks, 1989.

Mike's search for answers leads him on a dangerous and lonely wilderness quest.

*Martel, Suzanne. *The City Underground*. Toronto, ON: Douglas and McIntyre, 1982.

It is the year 3000. One day Luke discovers a doorway from the underground city to the outside and ventures into a world devastated by a nuclear attack 1000 years ago.

McNulty, Faith. *How to Dig a Hole to the Other Side of the World*. New York, NY: Harper and Row, 1979.

A boy discovers the many geological layers of the earth as he digs a hole to the other side of the earth.

*Mowat, Farley. *Lost in the Barrens*. New York, NY: Bantam, 1982.

Mowat tells the story of Jamie Macnair, a white boy, and Awasin Meewasin, a Cree, and their adventure in the Arctic, which proves to be longer and more dangerous than they could guess.

*Nelson, Jenny. *Archibald and the Crunch Machine*. Toronto, ON: Annick, 1990.

When an odious smell engulfs the entire town of Lakeview, Archibald decides to invent a machine to eat the garbage at the city dump.

Paulsen, Gary. *Brian's Winter*. New York, NY: Dell Books for Young Readers, 1996.

Instead of being rescued from a plane crash (as he is in *Hatchet*, another book by the same author), Brian is forced to survive a winter in the wilderness with only his survival pack and a hatchet.

---. *Hatchet*. New York, NY: Puffin, 1988.

After a plane crash, 13-year-old Brian spends 54 days in the wilderness, learning to survive, initially with only the aid of a hatchet given to him by his mother.

---. *The Schernoff Discoveries*. New York, NY: Dell Books for Young Readers, 1997.

Harold and his best friend, both hopeless geeks and societal misfits, try to survive unusual science experiments, the attacks of the football team, and other dangers of junior high school.

Sleator, William. *The Boy Who Reversed Himself*. New York, NY: Dutton, 1986.

When Laura discovers that the unpopular boy living next door to her has the ability to go into the fourth dimension, she makes the dangerous decision to accompany him on his journey there.

Stannard, Russell. *The Time and Space of Uncle Albert*. New York, NY: Henry Holt, 1989.

Gedanken and her Uncle think up a spacecraft and take off to do research for her science project. They learn about space travel and Einstein's theory of relativity. The project will be a great success if they can get back to Earth.

Voilier, Claude. *The Five in Deadly Danger*. London, UK: Knight, 1994.

The Five are visiting a famous scientist on a West Indian Island when a rival doctor tries to steal their host's amazing medicine made from snake venom.

Waddell, Martin. *Harriet and the Robot*. Boston, MA: Little, Brown, 1987.

For her friend's birthday, Harriet invents Dolly, a large doll that can help Harriet and her friend do their homework, but then the invention gets out of control.

*Walters, Eric. *The Hydrofoil Mystery*. Toronto, ON: Puffin, 1999.

During the First World War, William is sent to work for Alexander Graham Bell in Nova Scotia for the summer. Before he knows it, William is caught up in a deadly mystery that only he can solve.

*---. *Trapped in Ice*. Toronto, ON: Puffin, 1999.

This book is based on the real-life experiences of Captain Robert Bartlett and the 1913 Canadian Arctic Expedition led by Vilhjalmur Stefansson, and their adventure of survival when their ship, the *Karluq*, becomes trapped in ice.

Weiss, Ellen. *The Poof Point*. New York, NY: Knopf, 1992.

Marie and Eddie's parents have invented a time machine that travels through their own lives backwards. The children have to find a way to reverse the process before their parents reach the age of 0, "the poof point."

Wells, H.G. *The Invisible Man*. Toronto, ON: Bantam, 1987.

A scientist discovers a means to make himself invisible. The powers he thus acquires are, however, counterbalanced by unexpected disabilities. At length, he becomes a terror to his kind, and his last stage is a gruesome tragedy.

Williams, Jay. *Danny Dunn and the Homework Machine*. New York, NY: Pocket Books, 1979.

When Danny is left in charge of a new miniature automatic computer, he decides to program it to help him do his homework faster.

Woodruff, Elvira. *The Disappearing Bike Shop*. New York, NY: Dell, 1992.

Feckle and Tyler meet an unusual bicycle salesman and inventor who turns out to be Leonardo da Vinci, travelling through time.

Wyndham, John. *Trouble with Lichen*. Toronto, ON: Dent, 1968.

This story about Francis Saxover, who made his greatest discovery and was able to offer the world "one of the age-old dreams of man," takes us into a world faced with the means of prolonging youth and life indefinitely, and shows us how people react to the earth-shaking discovery.

Informational Resources

To find titles appropriate for the *Inventions, Innovations, and Discoveries* interdisciplinary unit, consider subjects such as inventions, computer history, discoveries in science, and electricity.

Inventions: Print

Aaseng, Nathan. *Better Mousetraps: Product Improvements That Led to Success*. Minneapolis, MN: Lerner, 1989.

Eight success stories detail the evolution of products ranging from heavy machinery to Tupperware.

---. *The Problem Solvers: People Who Turned Problems into Products*. Minneapolis, MN: Lerner, 1989.

This book explores strategies inventors used to solve problems that resulted in inventions such as the dishwasher, the Polaroid camera, and the Jacuzzi.

---. *The Rejects: People and Products That Outsmarted the Experts*. Minneapolis, MN: Lerner, 1989.

This book contains 10 stories of successful inventors whose inventions were rejected as products that would never work.

---. *The Unsung Heroes: Unheralded People Who Invented Famous Products*. Minneapolis, MN: Lerner, 1989.

Find out about the creative geniuses behind some of our most famous products.

Abrams, Malcolm, and Harriet Bernstein. *More Future Stuff: Over 250 Inventions That Will Change Your Life by 2001*. New York, NY: Penguin, 1991.

Asimov, Isaac. *Asimov's Chronology of Science and Discovery*. New York, NY: Harper and Row, 1989.

In this book, Asimov chronicles "how Science has shaped the world and how the world has affected science from 4,000,000 B.C. to the present." – Cover.

Bender, Lionel. *Invention*. Toronto, ON: Stoddart, 1991.

Bendick, Jeanne. *Eureka! It's an Airplane*. Brookfield, CN: Millbrook Press, 1992.

In a question-and-answer format, the reader is put in the position of the inventor. This book shows how people have reached the skies in various ways, from balloons to the Wright Brothers' inventions and today's supersonic jets.

Brain, Marshall. *Marshall Brain's How Stuff Works*. New York, NY: Hungry Minds, 2001.

Brown, G.I. *The Guinness History of Inventions*. Middlesex, UK: Guinness, 1996.

Caney, Steven. *Steven Caney's Invention Book*. New York, NY: Workman, 1985.

Learn how to set up a workshop, make an inventor's notebook, plan an invention, and build a prototype.

Casey, Susan. *Women Invent: Two Centuries of Discoveries That Have Shaped Our World*. Chicago, IL: Chicago Review Press, 1997.

Clements, Gillian. *The Picture History of Great Inventors*. New York, NY: Knopf, 1994.

This book features short, chronologically arranged profiles of more than 50 inventors, along with pictures and timelines.

Coppin, Brigitte, et al. *The Great Inventions*. London, UK: Moonlight, 1992.

Desmond, Kevin. *A Timetable of Inventions and Discoveries from Pre-History to the Present Day*. New York, NY: M. Evans, 1986.

Endacott, Geoff. *Discovery and Inventions*. New York, NY: Viking, 1991.

Fenton, Sophia Harvati, and Robert J. Lee. *Ancient Egypt*. New York, NY: Holt, Rinehart and Winston, 1971.

The authors describe the way of life of the ancient Egyptians and some inventions that made their civilization unique, such as the potter's wheel, paper, astronomy, and irrigation.

Gardener, Robert. *Experimenting with Inventions*. New York, NY: Franklin Watts, 1990.

Harvey, Miles. *Look What Came from Egypt*. New York, NY: Franklin Watts, 1998.

Harvey describes many familiar inventions, foods, customs, tools, toys and games, fashions, and more that originated in ancient Egypt.

---. *Look What Came from France*. New York, NY: Franklin Watts, 1999.

---. *Look What Came from Japan*. New York, NY: Franklin Watts, 1999.

Hazen, Walter A. *Everyday Life: Inventions*. Glenview, IL: Good Year, 1997.

This book includes a pullout, full-colour Inventions Timeline for classroom display.

Hegedus, Alannah, and Kaitlin Rainey. *Bleeps and Blips to Rocket Ships: Great Inventions in Communications*. Toronto, ON: Tundra, 2001.

Hillman, S., J. Miles, and C. Novis. *Future World*. Milwaukee, WI: Gareth Stevens Children's Books, 1989.

Future World describes a variety of new inventions in fields such as medicine, computers, travel, and space technology, and discusses their effect on our future lives.

Hockman, Hilary. *What's Inside? Great Inventions*. London, UK: Dorling Kindersley, 1993.

With close-up colour photographs, you can look inside inventions to see how they work.

Jones, Charlotte Foltz. *Accidents May Happen: Fifty Inventions Discovered by Mistake*. New York, NY: Delacorte, 1996.

Readers discover how a wide variety of things such as nursery rhymes, the national anthem, anaesthesia, Cellophane, raisins, and dynamite came into being.

---. *Mistakes That Worked*. New York, NY: Delacorte, 1991.

You will find the stories behind 38 surprising inventions that started out as inventions that didn't work.

Kassinger, Ruth. *Reinvent the Wheel: Make Classic Inventions, Discover Your Problem-Solving Genius, and Take the Inventor's Challenge*. New York, NY: Wiley, 2001.

Kawakami, Kenji. *101 Unuseless Japanese Inventions: The Art of Chindogu*. London, UK: Harper Collins, 1995.

Kenda, Margaret, and William Kenda. *The Big Book of Cool Inventions: 77 Inventions, Experiments, and Mind-Bending Games*. New York, NY: McGraw-Hill, 2000.

This book explores ideas about the process of invention and provides creative projects in various categories: flying machines, computers and robots, photographs and videos, paper and print, and fun.

Koslow, Philip. *Exploring Great Inventions*. Chicago, IL: Kidsbooks, 1998.

Lafferty, Peter. *Panorama: A History of Inventions from Abacus to Atomic Power*. Hove, UK: Macdonald Young Books, 1997.

Lafferty, Peter, and Julian Rowe. *The Inventor through History*. Hove, UK: Wayland, 1993.

Lubar, Steve. *Infoculture: The Smithsonian Book of Information Age Inventions*. Boston, MA: Houghton Mifflin, 1993.

Macaulay, David. *The New Way Things Work*. Rev. and updated. Boston, MA: Houghton Mifflin, 1998.

Line drawings and simple explanations show the working of just about everything we use.

Macdonald, Fiona. *The Stone Age News*. Cambridge, MA: Candlewick, 1998.

Using a newspaper format, the author presents the inventions, lifestyles, climate changes, and progress in hunting and farming of the Stone Age.

Madgwick, Wendy. *Inventions*. New York, NY: Kingfisher, 2000.

Mayer, Roy. *Inventing Canada: 100 Years of Innovation*. Vancouver, BC: Raincoast, 1997.

Morgan, Kate. *The Story of Things*. New York, NY: Walker & Company, 1991.

Mount, Ellis, and Barbara A. List. *Milestones in Science and Technology: The Ready Reference Guide to Discoveries, Inventions, and Facts*. 2nd ed. Phoenix, AZ: Oryx, 1994.

Nostbakken, Janis, and Jack Humphrey. *The Canadian Inventions Book: Innovations, Discoveries, and Firsts*. Toronto, ON: Greey de Pencier, 1976.

Oxlade, Chris. *Inventions*. London, UK: Puffin, 1994.

Parker, Steve. *Computers*. Austin, TX: Raintree Steck-Vaughn, 1997.

This resource describes the development of computers, their various components, and their uses for entertainment, education, business, and other facets of life.

---. *53 ½ Things That Changed the World and Some That Didn't!* Brookfield, CN: Millbrook, 1992.

Platt, Richard. *In the Beginning*. Montreal, QC: Reader's Digest Association (Canada), 1995.

---. *The Macmillan Visual Timeline of Inventions*. Toronto, ON: Macmillan Canada, 1994.

Rowland-Entwistle, Theodore. *Eureka! A Puzzle Book of Inventions*. Bolton, ON: Fenn Publishing, 1995.

"Rube Goldberg." *ITP Nelson Canadian Dictionary of the English Language: An Encyclopedic Reference*. 1997.

Sylveste, Diane. *Inventions, Robots, Future*. Santa Barbara, CA: The Learning Works, 1993.

Timmesh, Catherine. *Girls Think of Everything: Stories of Ingenious Inventions by Women*. Boston, MA: Houghton Mifflin, 2000.

- Turvey, Peter. *Inventions: Inventors and Ingenious Ideas*. New York, NY: Franklin Watts, 1994.
- Vare, Ethlie Ann, and Greg Ptacek. *Mothers of Invention: From the Bra to the Bomb: Forgotten Women and Their Unforgettable Ideas*. New York, NY: Quill, 1987.
- Verstraete, Larry. *Extreme Science*. Markham, ON: Scholastic Canada, 2000.
- . *The Serendipity Effect*. Toronto, ON: Scholastic Canada, 1989.
- . *Whose Bright Idea Was It? True Stories of Invention*. Richmond Hill, ON: Scholastic Canada, 1997.
- Weber, Robert J. *Forks, Phonographs, and Hot Air Balloons: A Field Guide to Inventive Thinking*. New York, NY: Oxford University Press, 1992.
- Wood, A.J. *Errata! A Book of Historical Errors*. Toronto, ON: Stewart House, 1992.
- Wood, Richard. *Great Inventions*. Alexandria, VA: Time-Life, 1995.
- Wuffson, Don. *The Invention of Ordinary Things*. New York, NY: Lothrop, Lee & Shepard, 1981.
- Wyatt, Valerie. *Inventions: An Amazing Investigation*. Toronto, ON: Greedy de Pencier Books, 1987.
- Yenne, Bill, and Morton Grosser. *100 Inventions That Shaped World History*. San Francisco, CA: Bluewood, 1993.

Inventions: Videocassettes

- Canadian Learning Company. *Alistair's Time Machine*. Videocassette. Toronto, ON: Canadian Learning Company, 1991.
- Nye, Bill. *Inventions: Computers*. Videocassette. Toronto, ON: Magic Lantern Communications, 1997.

Inventions: CD-ROM

- Macaulay, David. *The Way Things Work 2*. CD-ROM and Teacher's Manual. Toronto, ON: Irwin, 1997.

Electricity: Print

- Bartholomew, Alan. *Electric Gadgets and Gizmos: Battery-Powered Buildable Gadgets That Go!* Toronto, ON: Kids Can Press, 1998.
- Bonnet, Bob, and Dan Keen. *Science Fair Projects with Electricity and Electronics*. New York, NY: Sterling, 1996.
- Bryant-Mole, Karen. *Electricity*. Crystal Lake, IL: Rigby Interactive Library, 1997.
- Cole, Joanna. *The Magic School Bus and the Electric Field Trip*. New York, NY: Scholastic, 1997.
- Dann, Sarah. *The Science of Energy*. Milwaukee, WI: Gareth Stevens, 2000.
- de Pinna, Simon. *Electricity*. Austin, TX: Raintree Steck-Vaughn, 1998.
- Glover, David. *Batteries, Bulbs, and Wires*. New York, NY: Kingfisher Books, 1993.
- Levine, Shar, and Leslie Johnstone. *The Magnet Book*. New York, NY: Sterling, 1998.

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Professional Resources

To find titles appropriate to support the teaching of the *Inventions, Innovations, and Discoveries* interdisciplinary unit, consider the following subjects: cooperative learning, collaborative learning, constructivism, computers in education, and literature circles.

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