

# Technology

## Middle School Reading List

- 910  
ADA Adams, Simon. Titanic. New York: Dorling Kindersley Limited, 1999.
- Detailed descriptions of the Titanic, including its accommodations, and retelling of its sinking in the North Atlantic in April, 1912.
- 919.8  
ARM Armstrong, Jennifer. Shipwreck at the Bottom of the World: The Extraordinary True Story of Shackleton and the Endurance. New York: Crown Publishers, Inc., 1998.
- Describes the events of the 1914 Shackleton Antarctic expedition, when, after being trapped in a frozen sea for nine months, their ship, the Endurance, was finally crushed, forcing Shackleton and his men to make a very long and perilous journey across ice and stormy seas to reach inhabited land.
- 629.12  
AUS Aust, Siegfried. Flight! Minneapolis, MN: Lerner, 1991.
- Traces the history of human flight from Greek mythology to the space shuttle. Includes related activities.
- 629.133  
BAK Baker, Rhoda, and Miles Denyer. Flying Kites. Edison, NJ: Chartwell Books, 1995.
- Everything you will need to know about making and flying kites.
- 621.385  
BAS Bassett, John. Inside a Telephone. Danbury, CT: Grolier, 2001.
- Describes telephones to show how they are made and work, while introducing concepts, ideas about technology and industry, as well as business, history, and society.
- 621.388  
BAS Bassett, John. Inside a Television. Danbury, CT: Grolier, 2001.
- Describes some televisions to show how they are made and work, while introducing concepts, ideas about technology and industry, as well as business, history, and society.
- 629.8  
BER Bergin, Mark. Robots. New York: Franklin Watts, 2001.
- Tells what robots are, their uses and functions, and what they might be like in the future.

- 629.44  
BER Bergin, Mark. Space Shuttle. New York: Franklin Watts, 1999.
- Follows the development of the space shuttle program from the early years up to the present day, covering construction of the shuttle, take-off, missions in space, reentry, and landing.
- 720  
BER Bergin, Mark. Wonders of the World. New York: Franklin Watts, 1999.
- Discusses the design and construction of the seven ancient Wonders of the World and compares them to impressive modern structures.
- 509.51  
BES Beshore, George. Science in Ancient China. New York: Franklin Watts, 1988.
- Surveys the achievements of the ancient Chinese in science, medicine, astronomy, and cosmology, and describes such innovations as rockets, wells, the compass, water wheels, and movable type.
- 001.942  
BLA Blackwood, Gary L. Alien Astronauts. New York: Benchmark Books, 1999.
- Discusses the existence of unidentified flying objects and explanations for various sightings throughout history.
- 681.1  
BRA Brackin, A, J. Clocks Chronicling Time. San Diego, CA: 1991.
- Examines early concepts of time, devices for measuring time, and how measured time affects how we live.
- B  
DEERE Collins, David R. Pioneer Plowmaker : a Story about John Deere. Minneapolis, MN: Carolrhoda Books, 1990.
- A biography of the inventor and manufacturer who produced one of the first self-scouring plows.
- B  
SCOTT Cummins, Julie. Tomboy of the Air : Daredevil Pilot Blanche Stuart Scott. New York: HarperCollins, 2001.
- A celebration of an aviation pioneer whose spunky, courageous personality helped her successors' dreams take flight.

- 629.13  
DAL Dale, Henry. Early Flying Machines. New York: Oxford University Press, Inc., 1992.
- Surveys the early history of flight, from the first recorded history of man's attempt to fly to the successful flight of the Wright brothers.
- 624.1  
DIX Dixon, Malcolm. Structures. New York: The Bookwright Press, 1991.
- Describes how man-made structures such as tunnels, bridges, and dams have been built and how they have changed the way we live, and observes the beauty and strength of both man-made and natural structures. Also gives instructions for building one's own structures.
- 681.1  
DUF Duffy, Trent. The Clock. New York: Atheneum Books for Young Readers, 2000.
- Explores the world before the invention of mechanical clocks; looks at the life of John Harrison, creator of the first accurate and portable mainspring clock, and discusses how the world has changed as a result of the invention.
- 627  
EAR Earle, Sylvia A. Dive: My Adventures in the Deep Frontier. Washington DC: National Geographic Society, 1999.
- The author relates some of her adventures studying and exploring the world's oceans, including tracking whales, living in an underwater laboratory, and helping to design a deep-water submarine.
- B  
HENRY Fisher, Leonard Everett. Prince Henry the Navigator. New York: Macmillan, 1990.
- A biography of that Portuguese prince whose vision and whose school of navigation significantly affected all later explorers who charted the unknown.
- 629.23  
FLY Flynn, Mike. Inside a Car. Danbury, CT: Grolier Educational, 2001.
- Describes some automobiles to show how they are made and work, while introducing concepts, ideas about technology and industry, as well as business, history, and society.
- 621.3893  
FLY Flynn, Mike. Inside a Compact Disk. Danbury, CT: Grolier Educational, 2001.
- Describes compact disks to show how they are made and work, while introducing concepts, ideas about technology and industry, as well as business, history, and society.

004.678  
FLY

Flynn, Mike. Inside a Web Site. Danbury, CT: Grolier Educational, 2001.

Describes Web sites to show how they are made and work, while introducing concepts, ideas about technology and industry, as well as business, history, and society

620.1  
FRE

Freeman, John, and Martin Hollins. Mechanics. Morristown, NJ: Silver Burdett, 1983.

Discusses the phenomena of force, movement, pressure, and friction, the mechanics involved in moving things, and the means by which machines work.

B  
FRA

Fritz, Jean. What's the Big Idea, Ben Franklin? New York: Coward, McCann & Geoghegan, 1976.

A brief biography of the eighteenth-century printer, inventor, and statesman who played an influential role in the early history of the United States.

629.13  
GAF

Gaffney, Timothy R. Air Show Pilots and Airplanes. Berkeley Heights, NJ : Enslow, 2001.

A firsthand adventure with world-famous air show pilots as they master the sky in planes.

551.55  
GAF

Gaffney, Timothy R. Hurricane Hunters. Berkeley Heights, NJ:Enslow, 2001.

Photographs and text describe such airplanes as the WC-130 and the WP-3D Orion which are used to study hurricanes.

621.386  
GEA

Gearhart, Sarah. The Telephone. New York: Atheneum Books for Young Readers, 1999.

Explore the world before the telephone, the life of Alexander Graham Bell and how he invented the telephone, how the world was changed by the telephone, and how the telephone may influence our future.

523.8  
GIB

Gibbons, Tony. Submarines. Minneapolis, MN: Lerner Publications, 1987.

Examines the functions and design features of modern submarines, both conventional diesel-powered and nuclear, and focuses on such warfare aspects as tactics, missiles, and torpedoes.

- 690  
GOV Govier, Heather. Buildings. Ada, OK: Garrett Educational Corporation, 1991.  
Discusses the construction and different uses of buildings.
- 629.222  
GRA Graham, Ian. Cars. New York: Franklin Watts, 2000.  
Traces the history of the first automobiles through the development of super cars and muscle cars, discussing such topics as computer design, safety features, and speed records.
- 629.13  
GRA Graham, Ian. Planes, Rockets, and Other Flying Machines. New York: Franklin Watts, 2000.  
Traces the development of flight including designs and technology of hot air balloons, gliders, helicopters, and rockets.
- 623.8  
GRA Graham, Ian. Ships and Submarines. New York: Franklin Watts, 2000.  
Presents the historical development of all kinds of sea-going vessels, including designs and technology of warships, canoes, submarines, cruisers, and racers.
- 629.224  
GRA Graham, Ian. Super Trucks. New York: Franklin Watts, 2001.  
Explores the world of super trucks, their history, design, and use.
- 720  
GRE Greenberg, Jan. Frank O. Gehry : Outside In. New York: DK Ink, 2000.  
Photographs and text help profile the life and career of architect Frank O. Gehry.
- 629.133  
H Halpern, John. Early Birds. New York: E.P.Dutton, 1981.  
An informal account of the beginnings of aviation.
- 791.43  
HAM Hamilton, Jake. Special Effects in Film and Television. New York: DK Publishing, Inc., 1998.  
Presents a behind-the-scenes look at some of the magic of the movies including the puppetry techniques used in ET, the animation in Toy Story, and much more.

- 624.1  
HAS Haslam, Andrew. Building. NY: Thomson Learning, 1994.
- Experiments and other activities introduce building, how materials are used and joined together, and what gives structure its strength.
- B  
FULTON Henry, Joanne Landers. Robert Fulton, Steamboat Builder. New York: Chelsea Juniors, 1991.
- A brief biography of the portrait painter and inventor of the submarine and steamboat.
- 629.133  
JAC Jackson, Tom. Inside a Helicopter. Danbury, CT: Grolier, 2001.
- Describes helicopters to show how they are made and work, while introducing concepts, ideas about technology and industry, as well as business, history, and society.
- 621.4356  
JAC Jackson, Tom. Inside a Rocket. Danbury, CT: Grolier, 2001.
- Describes rockets to show how they are made and work, while introducing concepts, ideas about technology and industry, as well as business, history, and society.
- 629.8  
JEF Jefferis, David. Artificial Intelligence : Robotics and Machine Evolution. New York: Crabtree, 1999.
- An introduction to the past, present, and future of artificial intelligence and robotics, discussing early science fiction predictions, the dawn of AI, and today's use of robots in factories and space exploration.
- 004  
JEF Jefferis, David. Cyber Space : Virtual Reality and the World Wide Web. New York: Crabtree, 1999.
- Surveys digital technology from the early days of computers to virtual reality and the World Wide Web, describing the uses of computer simulation in flight, battle, hazardous environments, and entertainment.
- 624  
KIN Kingston, Jeremy. How Bridges are Made. New York: Facts on File, 1985.
- Illustrates how the five main types of bridges are designed and built and describes the materials and skills used in their construction.

- 720.97  
KRI  
Krieg, Joann P. Long Island Architecture. New York: Heart of the Lakes Publishing, 1991.  
  
Papers presented at Long Island Studies Conference.
- 629.13  
LED  
Leder, Jane. Amelia Earhart. Dan Diego: Greenhaven Pr., 1989.  
  
Explores the mystery of the disappearance of the famous woman aviator in 1937 while attempting to fly around the world. Was she lost at sea or did she survive?
- 720  
MAC  
Macaulay, David. Building Big. Boston: Houghton Mifflin Co., 2000.  
  
A companion book to the PBS television series about the creation of bridges, tunnels, skyscrapers, domes, and dams, focusing on the connections between the main planning and design problems that had to be solved and the solutions that were ultimately constructed.
- 623.19  
MAC  
Macaulay, David. Castle. Boston: Houghton Mifflin Co., 1977.  
  
Text and detailed drawings follow the planning and construction of a "typical" castle.
- 711  
MAC  
Macaulay, David. City: A Story of Roman Planning and Construction. Boston: Houghton Mifflin Co., 1974.  
  
Text and black and white illustrations show how Roman cities were planned and constructed.
- 677  
MAC  
Macaulay, David. Mill. Boston: Houghton Mifflin Co., 1983.  
  
Text and black-and-white illustrations show the planning, construction and operation of mills developed in New England throughout the nineteenth century.
- 690.6  
MAC  
Macaulay, David. Pyramid. Boston: Houghton Mifflin Co., 1975.  
  
Text and black-and-white illustrations follow the intricate step-by-step process of the building of an ancient Egyptian pyramid.
- 690.5  
MAC  
Macaulay, David. Unbuilding. Boston: Houghton Mifflin Co., 1980.  
  
This fictional account of the dismantling and removal of the Empire State Building describes the structure of a skyscraper and explains how such an edifice would be demolished.

- 624  
MAC Macaulay, David. Underground. Boston: Houghton Mifflin Co., 1976.
- Text and drawings describe the subways, sewers, building foundations, telephone and power systems, columns, cables, pipes, tunnels, and other underground elements of a large modern city.
- 624  
MAL Malam, John. Super Structures. New York: Franklin Watts, 2000.
- Illustrations and text help describe how some of the world's largest structures were built.
- 004.67  
MAR Marshall, Elizabeth L. A Student's Guide to the Internet. Brookfield, CT: Twenty-First Century Books, 2001.
- Explores the many ways of gathering information from the Internet, offering guidelines on conducting online research, presenting tips for designing a home page, discussing Internet safety, and including a resource list for connecting with other students throughout the world.
- B  
EDISON Mitchell, Barbara. The Wizard of Sound : a Story about Thomas Edison. Minneapolis: Carolrhoda Books, 1991.
- Chronicles the life and contributions of the inventor, from his sickly childhood to the creation of his own favorite invention, the phonograph.
- 660.6  
MOR Morgan, Sally. Technology in Action. New York: Facts On File, 1994.
- Explores some of the ways living organisms, plants, animals and bacteria, are contributing to modern technology.
- 660  
OLE Oleksy, Walter G. Miracles of Genetics. Chicago: Children's Press, 1986.
- Introduces genetic engineering and describes its practical applications in the creation of superior plants and animals and improved human medicine.
- CA  
025.04  
OLE Oleksy, Walter G. Web Entrepreneur. New York: Rosen Publishing Group, 2000.
- Discusses what education and skills are needed to run a business on the Internet and profiles several successful Web entrepreneurs.

- CA  
794.8  
OLE
- Oleksy, Walter G. Web Page Designer. New York: Rosen Pub. Group, 1999.
- Explains what web page designers do and how to prepare for a career in this fast-growing field.
- 726  
PER
- Perdrizet, Marie-Pierre. The Cathedral Builders. Brookfield, CT: The Millbrook Press, 1992.
- Describes the construction of Gothic cathedrals and the significance they had in the lives of those who built them.
- FIC  
PLATT
- Platt, Richard. Pirate Diary: The Journal of Jake Carpenter. Cambridge, MA: 2001.
- The fictional diary of a ten-year-old boy who, in 1716, sets off from North Carolina to become a sailor but ends up a pirate instead.
- B  
GATES
- Raatma, Lucia. Bill Gates: Computer Programmer and Entrepreneur. Chicago, IL: Ferguson Publishing Company, 2000.
- A biography of the software developer and computer entrepreneur who founded Microsoft and helped make personal computers a reality.
- 004  
SEA
- Searle, Bobbi. Inside a Computer. Danbury, CT: Grolier, 2001.
- Describes some computers to show how they are made and work, while introducing concepts, ideas about technology and industry, as well as business, history, and society
- 690  
SEA
- Searle, Bobbi. Inside a Skyscraper. Danbury, CT: Grolier, 2001.
- Describes some skyscrapers to show how they are made and work, while introducing concepts, ideas about technology and industry, as well as business, history, and society.
- 683.88  
SEY
- Seymour, Claire. Inside a Clock. Danbury, CT: Grolier, 2001.
- Describes some clocks and watches to show how they are made and work, while introducing concepts, ideas about technology and industry, as well as business, history, and society.

- 683.88  
SEY Seymour, Claire. Inside a Stove. Danbury, CT: Grolier, 2001
- Describes some stoves to show how they are made and work, while introducing concepts, ideas about technology and industry, as well as business, history, and society.
- 609  
SNE Snedden, Robert. Technology in the Time of Ancient Rome. New York: Raintree Steck-Vaugh Publishers, 1998.
- Describes many of the innovative inventions that the Romans incorporated into their daily lives, including aqueducts, hot baths, and central heating.
- 025.04  
SPA Spangenburg, Ray. Savvy Surfing on the Internet : Searching and Evaluating Web Sites. Berkeley Heights, NJ: Enslow, 2001.
- Shows users of the Internet how to tell accurate information from false or deceptive information.
- 363.12  
STA Stacey, Thomas. The Titanic. San Diego, CA: Lucent Books, 1989.
- An account of the 1914 sinking during her maiden voyage of the luxurious and supposedly unsinkable Titanic, the largest ship in the world at that time.
- 625.1  
UTT Uttley, Colin. Inside a High Speed Train. Danbury, CT: Grolier, 2001.
- Describes some high-speed trains to show how they are made and work, while introducing concepts, ideas about technology and industry, as well as business, history, and society.
- 629.46  
UTT Uttley, Colin. Inside a Satellite. Danbury, CT: Grolier, 2001.
- Describes satellites to show how they are made and work, while introducing concepts, ideas about technology and industry, as well as business, history, and society.
- 770.9  
WAL Wallace, Joseph. The Camera. New York: Atheneum Books for Young Readers, 2000.
- Explores how the creation of the camera changed society and discusses how the camera has been used throughout history.

- 621.32  
WAL Wallace, Joseph. The Lightbulb. New York: Atheneum Books for Young Readers, 1999.
- Explore the world before the light bulb, the life of Thomas Alva Edison, including how he invented the light bulb, how the world was changed by the light bulb, and how this invention may influence our future.
- 006  
WEI Weiss, Ann E. Virtual Reality : a Door to Cyberspace. New York: Twenty-First Century Books, 1996.
- Discusses the technical development of virtual reality and explains its present uses and future possibilities.
- 660  
WEL Wells, Donna. Biotechnology. Tarrytown, NY: Benchmark Books, 1996.
- Describes the history and applications of biotechnology, focusing on how scientists develop new organisms by altering the makeup of living things.
- 005.7  
WIG Wigglebits, Wanda. Building a School Web Site: a Hands-on-Project for Teachers and Kids. Chicago: Duomo Press, 2001.
- A beginner's guide to building a Web site that presents HTML basics (files, words, pictures, color, and links) and information and instructions on Web editors, publishing, bandwidth, open standards, and animation, as well as a glossary and an annotated bibliography.
- 690  
WIL Wilbur, C. Keith. Homebuilding and Woodworking in Colonial America. Philadelphia, PA: Chelsea House, 1997.
- Illustrations and text provide information about seventeenth and eighteenth-century construction techniques and tools, discussing every aspect of home building, from choosing trees to finishing work.
- 629.133  
WOO Woodford, Chris. Inside a Jet Plane. Danbury, CT: Grolier, 2001.
- Describes jet planes to show how they are made and work, while introducing concepts, ideas about technology and industry, as well as business, history, and society.
- 623.823  
WOO Woodford, Chris. Inside a Powerboat. Danbury, CT: Grolier, 2001.
- Describes some powerboats to show how they are made and work, while introducing concepts, ideas about technology and industry, as well as business, history, and society.

623.8  
WUR

Wurmfeld, Hope Herman. Boatbuilder. New York: Macmillan publishing, 1988.

Describes how man-made structures such as tunnels, bridges, and dams have been built and how they have changed the way we live, and observes the beauty and strength of both man-made and natural structures. Also gives instructions for building one's own structures.