Helpful Websites

To get you started, here are some websites that might be helpful. You’ll see that there are general websites and also websites specific to certain areas of science (Alternative Sources of Energy; Environment; Food, Health & Fitness; Forces & Motion; National Security & Safety; Robotics and Technolgy). You might use them when you do your research or you might use them to help you choose a topic to study for your project. Either way, these are just some of the many websites that are out there to help you along the way.

**GENERAL WEBSITES**

[**Ask a Scientist**](http://www.newton.dep.anl.gov/)
[**http://www.newton.dep.anl.gov/**](http://www.newton.dep.anl.gov/)
This site allows you to pose questions to scientists or to read through previously asked questions.

[**Discover Engineering**](http://www.discovere.org/)
[**http://www.discovere.org/**](http://www.discovere.org/)
Learn about more about engineering.

[**Internet Public Library**](http://www.ipl.org/)
[**http://www.ipl.org/**](http://www.ipl.org/)
This is a great place to get started on your research.

[**Kids.gov Science Sites**](http://kids.usa.gov/teens/science/)
[**http://kids.usa.gov/teens/science/**](http://kids.usa.gov/teens/science/)
Provides links to Federal kids' sites along with some of the best kids' sites from other organizations all grouped by subject.

[**Measurements Converter**](http://www.convert-me.com/)
[**http://www.convert-me.com**](http://www.convert-me.com/)
Interactive calculators for many measurement systems both commonly used like metric and U.S. and quite exotic like Ancient Greek and Roman.

[**Periodic Table of Elements**](http://www.chemicool.com/)
[**http://www.chemicool.com/**](http://www.chemicool.com/)
A great interactive Periodic Table of the Elements.

[**Science Daily**](http://www.sciencedaily.com/)
[**http://www.sciencedaily.com/**](http://www.sciencedaily.com/)
An online publication that is searchable and contains articles about science and engineering.

[**Science Video Glossary**](http://videoglossary.lbl.gov/)
[**http://videoglossary.lbl.gov/**](http://videoglossary.lbl.gov/)
A collection of videos that explain science and engineering terms.

[**Science.gov**](http://www.science.gov/)
[**http://www.science.gov/**](http://www.science.gov/)
A searchable site created by the US Government that allows you to search for various topics.

[**The Science Spot**](http://sciencespot.net/)
[**http://sciencespot.net/**](http://sciencespot.net/)
Find the answers to all sorts of science-related questions.

[**Easy Bib**](http://www.easybib.com/)
[**http://www.easybib.com/**](http://www.easybib.com/)
This website will take information about where you collected your research and create a citation for you. It includes information about MLA, APA, Chicago and other formats.

**ALTERNATIVE SOURCES OF ENERGY WEBSITES**

[**10 Ways Alternative Energy is About to Change the Way Tech Gets Powered**](http://www.uta.edu/faculty/jcchiao/Press_release_6/140130_TechRepublic/140130_TechRepublic_web.htm)
[**http://www.uta.edu/faculty/jcchiao/Press\_release\_6/140130\_TechRepublic/140130\_TechRepublic\_web.htm**](http://www.uta.edu/faculty/jcchiao/Press_release_6/140130_TechRepublic/140130_TechRepublic_web.htm)
An article all about new energy sources for technology.

[**Alternative Energy**](http://www.altenergy.org/)
[**http://www.altenergy.org/**](http://www.altenergy.org/)
This site contains information about the different types of alternative energy.

[**Alternative Energy - National Geographic Video**](http://video.nationalgeographic.com/video/alternative-energy)
[**http://video.nationalgeographic.com/video/alternative-energy**](http://video.nationalgeographic.com/video/alternative-energy)
A video produced by National Geographic that talks all about alternative energy sources.

[**Alternative Fuels**](http://www.fueleconomy.gov/feg/current.shtml)
[**http://www.fueleconomy.gov/feg/current.shtml**](http://www.fueleconomy.gov/feg/current.shtml)
A page that explains alternative fuels for vehicles.

[**Energy Sources - Department of Energy**](http://energy.gov/science-innovation/energy-sources)
[**http://energy.gov/science-innovation/energy-sources**](http://energy.gov/science-innovation/energy-sources)
A look at all things renewable and alternative from the Department of Energy.

[**Farm Energy Options**](http://afsic.nal.usda.gov/farm-energy-options-0)
[**http://afsic.nal.usda.gov/farm-energy-options-0**](http://afsic.nal.usda.gov/farm-energy-options-0)
An explanation of alternative sources of energy for farms.

[**National Renewable Energy Laboratory**](http://www.nrel.gov/)
[**http://www.nrel.gov/**](http://www.nrel.gov/)
A great resources for how alternatives energies are being used now and in the future.

[**Renewable and Alternative Energy Source - Penn State**](http://extension.psu.edu/natural-resources/energy)
[**http://extension.psu.edu/natural-resources/energy**](http://extension.psu.edu/natural-resources/energy)
A page from Penn State University that explains what renewable and alternative energy is and how it's being studied right now.

[**Renewable and Alternative Fuels**](http://www.epa.gov/otaq/fuels/alternative-renewablefuels/)
[**http://www.epa.gov/otaq/fuels/alternative-renewablefuels/**](http://www.epa.gov/otaq/fuels/alternative-renewablefuels/)
The Environmental Protection Agency's page about renewable and alternative fuels.

[**Renewable Energy Sources in the United States**](http://www.nationalatlas.gov/articles/people/a_energy.html)
[**http://www.nationalatlas.gov/articles/people/a\_energy.html**](http://www.nationalatlas.gov/articles/people/a_energy.html)
Descriptions and graphics of alternative energy sources

**ENVIRONMENT WEBSITES**

**[Climate and Environmental Science Division of the Department of Energy](http://science.energy.gov/ber/research/cesd%22%20%5Ct%20%22_blank)**
[**http://science.energy.gov/ber/research/cesd**](http://science.energy.gov/ber/research/cesd)
The Department of Energy's page dedicated to environmental science.

[**Climate Kids - NASA**](http://climatekids.nasa.gov/menu/technology/)
[**http://climatekids.nasa.gov/menu/technology/**](http://climatekids.nasa.gov/menu/technology/)
NASA's environmental science page designed for students.

[**Climateers**](http://www.climateers.org/eng/contents/)
[**http://www.climateers.org/eng/contents/**](http://www.climateers.org/eng/contents/)
A page designed by the World Wildlife Federation that allows students to learn about various environmental issues.

[**Environment - Federal Highway Administration**](http://www.fhwa.dot.gov/environment/)
[**http://www.fhwa.dot.gov/environment/**](http://www.fhwa.dot.gov/environment/)
A page that talks about the environmental impacts of transportation.

[**Environment Magazine**](http://www.environmentmagazine.org/)
[**http://www.environmentmagazine.org/**](http://www.environmentmagazine.org/)
A site that has numerous and up-to-date articles about environmental problems and issues.

[**Environmental Defense Fund**](http://www.edf.org/)
[**http://www.edf.org/**](http://www.edf.org/)
This is the homepage for the Environmental Defense Fund, the organization that fights to protect the environment.

[**National Public Radio - Environment**](http://www.npr.org/sections/environment/)
[**http://www.npr.org/sections/environment/**](http://www.npr.org/sections/environment/)
A site offering written and recorded new stories about environmental issues.

[**Students for the Environment**](http://www.epa.gov/students/)
[**http://www.epa.gov/students/**](http://www.epa.gov/students/)
Activities and resources specifically for students concerning the environment.

[**United Nations Environment Programme**](http://www.unep.org/)
[**http://www.unep.org/**](http://www.unep.org/)
This page offers a good global perspective on environmental issues.

[**United States Environmental Protection Agency**](http://www.epa.gov/)
[**http://www.epa.gov/**](http://www.epa.gov/)
The Environmental Protection Agency's homepage.

**FOOD, HEALTH, AND FITNESS WEBSITES**

[**FDA Food Safety**](http://www.fda.gov/Food/)
[**http://www.fda.gov/Food/**](http://www.fda.gov/Food/)
Information about recalls, foodborne illnesses, food product labels, food research, and more provided by the United States Food and Drug Administration.

[**Distracted Driving Prevention Toolkit - for Parents**](https://www.kanetix.ca/distracted-driving-toolkit#parents)
[**https://www.kanetix.ca/distracted-driving-toolkit#parents**](https://www.kanetix.ca/distracted-driving-toolkit#parents)
This site talks about the dangers of distracted driving.

[**Food Safety**](http://www.foodsafety.gov/)
[**http://www.foodsafety.gov/**](http://www.foodsafety.gov/)
A page all about food safety and preparation.

[**Health Information - National Institutes of Health**](http://health.nih.gov/)
[**http://health.nih.gov/**](http://health.nih.gov/)
The homepage for the National Institutes of Health.

[**Health.gov**](http://www.health.gov/)
[**http://www.health.gov/**](http://www.health.gov/)
A page containing information about all things health including spread of diseases and safety.

[**HealthyChildren.org: Ages & Stages**](http://www.healthychildren.org/English/ages-stages/Pages/default.aspx)
[**http://www.healthychildren.org/English/ages-stages/Pages/default.aspx**](http://www.healthychildren.org/English/ages-stages/Pages/default.aspx)
A page that explains how children grow and develop at various ages.

[**Keep Kids Safe from Preventable Injuries**](http://www.safekids.org/safetytips)
[**http://www.safekids.org/safetytips**](http://www.safekids.org/safetytips)
A page dedicated to children's safety.

[**KidsHealth.org: Parents Home Page**](http://kidshealth.org/parent/)
[**http://kidshealth.org/parent/**](http://kidshealth.org/parent/)
A page dedicated to children's health and development.

[**Parents Central: From Car Seats to Car Keys - Keeping Kids Safe**](http://www.safercar.gov/parents/index.htm)
[**http://www.safercar.gov/parents/index.htm**](http://www.safercar.gov/parents/index.htm)
A page about safety tips concerning cars and kids.

[**President's Council on Fitness, Sports, and Nutrition**](http://www.fitness.gov/)
[**http://www.fitness.gov/**](http://www.fitness.gov/)
This page has information about fitness and nutrition for students.

**FORCES & MOTION WEBSITES**

[**Ask a Scientist**](http://www.newton.dep.anl.gov/)
[**http://www.newton.dep.anl.gov/**](http://www.newton.dep.anl.gov/)
This site allows you to pose questions to scientists or to read through previously asked questions.

[**Beginner's Guide to Aeronautics**](http://www.grc.nasa.gov/WWW/k-12/airplane/)
[**http://www.grc.nasa.gov/WWW/k-12/airplane/**](http://www.grc.nasa.gov/WWW/k-12/airplane/)
Designed by NASA, this page explains how planes work.

[**Forces and Motion: Basics - Simulations**](http://phet.colorado.edu/en/simulation/forces-and-motion-basics)
[**http://phet.colorado.edu/en/simulation/forces-and-motion-basics**](http://phet.colorado.edu/en/simulation/forces-and-motion-basics)
Extensive simulations for various physics problems.

[**Khan Academy - Forces and Newton's Laws of Motion**](https://www.khanacademy.org/science/physics/forces-newtons-laws)
[**https://www.khanacademy.org/science/physics/forces-newtons-laws**](https://www.khanacademy.org/science/physics/forces-newtons-laws)
Lessons about force and motion from Khan Academy. These are presented as videos.

[**Kinematics: The Physics of Motion**](http://www.compadre.org/precollege/static/unit.cfm?sb=2&course=1)
[**http://www.compadre.org/precollege/static/unit.cfm?sb=2&course=1**](http://www.compadre.org/precollege/static/unit.cfm?sb=2&course=1)
Written lessons and explanations of physics concepts.

[**Motion and Forces - Simulations**](http://pdgusers.lbl.gov/~aerzber/aps_motion.html)
[**http://pdgusers.lbl.gov/~aerzber/aps\_motion.html**](http://pdgusers.lbl.gov/~aerzber/aps_motion.html)
A page of numerous physics-related simulations.

[**Physics 4 Kids**](http://www.physics4kids.com/files/motion_force.html)
[**http://www.physics4kids.com/files/motion\_force.html**](http://www.physics4kids.com/files/motion_force.html)
This page explains forces and motion and provides examples and videos.

[**Physics of Sandcastles**](http://science.nasa.gov/science-news/science-at-nasa/2002/11jul_mgm/)
[**http://science.nasa.gov/science-news/science-at-nasa/2002/11jul\_mgm/**](http://science.nasa.gov/science-news/science-at-nasa/2002/11jul_mgm/)
Learn all about the physics of sandcastles from NASA.

[**Physics Sites for Kids**](http://kids.usa.gov/teens/science/physics/index.shtml)
[**http://kids.usa.gov/teens/science/physics/index.shtml**](http://kids.usa.gov/teens/science/physics/index.shtml)
A list of sites for students that relate to physics.

**NATIONAL SECURITY & SAFETY WEBSITES**

[**Biometrics.gov**](http://www.biometrics.gov/)
[**http://www.biometrics.gov/**](http://www.biometrics.gov/)
The US government's biometrics page that explains what biometrics is and how it work.

[**CIA Kids Zone**](https://www.cia.gov/kids-page/index.html)
[**https://www.cia.gov/kids-page/index.html**](https://www.cia.gov/kids-page/index.html)
The Central Intelligence Agency page designed for students

[**CyrptoKids**](https://www.nsa.gov/kids/)
[**https://www.nsa.gov/kids/**](https://www.nsa.gov/kids/)
A page designed to explain national security to students

[**Department of Justice - National Security Division**](http://www.justice.gov/nsd)
[**http://www.justice.gov/nsd**](http://www.justice.gov/nsd)
The National Security Division of the Department of Justice

[**FBI Kids Zone**](http://www.fbi.gov/fun-games/kids/kids)
[**http://www.fbi.gov/fun-games/kids/kids**](http://www.fbi.gov/fun-games/kids/kids)
The Federal Bureau of Investigation page designed for students

[**FBI National Security Branch**](http://www.fbi.gov/about-us/nsb)
[**http://www.fbi.gov/about-us/nsb**](http://www.fbi.gov/about-us/nsb)
The FBI's page about national security

[**Forensic Science Simplified**](http://www.forensicsciencesimplified.org/)
[**http://www.forensicsciencesimplified.org/**](http://www.forensicsciencesimplified.org/)
A page that explains all aspects of forensic science

[**National Defense Education Program - LabTV**](http://www.ndep.us/LabTV)
[**http://www.ndep.us/LabTV**](http://www.ndep.us/LabTV)
This page provides videos about national security

[**National Security Agency**](https://www.nsa.gov/)
[**https://www.nsa.gov/**](https://www.nsa.gov/)
The homepage for the National Security Agency

[**National Security Council**](http://www.whitehouse.gov/administration/eop/nsc)
[**http://www.whitehouse.gov/administration/eop/nsc**](http://www.whitehouse.gov/administration/eop/nsc)
The homepage for the National Security Council

**ROBOTICS WEBSITES**

[**Carnegie Mellon Robotics Institute**](https://www.ri.cmu.edu/)
[**https://www.ri.cmu.edu/**](https://www.ri.cmu.edu/)
A leader in robotic innovation, Carnegie Mellon University offers a wide array of information about what they are doing and have done.

[**FIRST Robotics**](http://www.usfirst.org/roboticsprograms/frc/)
[**http://www.usfirst.org/roboticsprograms/frc/**](http://www.usfirst.org/roboticsprograms/frc/)
A robotic competition and ideas for what students are doing with robots now

[**IEEE Robotics and Automation Society**](http://www.ieee-ras.org/)
[**http://www.ieee-ras.org/**](http://www.ieee-ras.org/)
Information about how robots are used in engineering

[**Razor Robotics**](http://www.razorrobotics.com/)
[**http://www.razorrobotics.com/**](http://www.razorrobotics.com/)
Find out more about the basics of robotics!

[**Robotic Industries Association**](http://www.robotics.org/)
[**http://www.robotics.org/**](http://www.robotics.org/)
Offering webinars and more information about how robots work

[**Robotic Kits for Kids**](https://www.asme.org/engineering-topics/articles/robotics/kits-for-kids-demystify-robotics)
[**https://www.asme.org/engineering-topics/articles/robotics/kits-for-kids-demystify-robotics**](https://www.asme.org/engineering-topics/articles/robotics/kits-for-kids-demystify-robotics)
A source for kits that students can purchase to build robots

[**Robotics Alliance Homepage - NASA**](http://robotics.arc.nasa.gov/)
[**http://robotics.arc.nasa.gov/**](http://robotics.arc.nasa.gov/)
NASA Robotics Alliance that talks all about robots in use today

[**Robotics Facts**](http://idahoptv.org/sciencetrek/topics/robots/facts.cfm)
[**http://idahoptv.org/sciencetrek/topics/robots/facts.cfm**](http://idahoptv.org/sciencetrek/topics/robots/facts.cfm)
Facts about robots

[**Sandia National Laboratories - Intelligent Systems, Robotics, and Cybernetics**](http://www.sandia.gov/research/robotics/)
[**http://www.sandia.gov/research/robotics/**](http://www.sandia.gov/research/robotics/)
A site that provides information about what people are doing with robots now.

[**The Tech Museum - Robotics**](http://www.thetech.org/exhibits/online/robotics/)
[**http://www.thetech.org/exhibits/online/robotics/**](http://www.thetech.org/exhibits/online/robotics/)
Information designed for students about robots

**TECHNOLOGY WEBSITES**

[**BBC Technology News**](http://www.bbc.com/news/technology/)
[**http://www.bbc.com/news/technology/**](http://www.bbc.com/news/technology/)
This is a resources for articles about current technology

[**Emerging Technologies**](http://energy.gov/eere/buildings/emerging-technologies)
[**http://energy.gov/eere/buildings/emerging-technologies**](http://energy.gov/eere/buildings/emerging-technologies)
Information about new technologies, this site was created by the Department of Energy.

[**Government Technology**](http://www.govtech.com/)
[**http://www.govtech.com/**](http://www.govtech.com/)
The US Government site about technology, providing information and additional resources.

[**NASA Technology**](http://www.nasa.gov/topics/technology/#.VBLxFKNaarg)
[**http://www.nasa.gov/topics/technology/#.VBLxFKNaarg**](http://www.nasa.gov/topics/technology/#.VBLxFKNaarg)
NASA's technology page, discussing all kinds of technology used by NASA in space and around the world.

[**Tech Kids Unlimited**](http://www.techkidsunlimited.org/)
[**http://www.techkidsunlimited.org/**](http://www.techkidsunlimited.org/)
Learn about what other students are doing with technology right now!

[**Technology - National Public Radio**](http://www.npr.org/sections/technology/)
[**http://www.npr.org/sections/technology/**](http://www.npr.org/sections/technology/)
Recorded and written articles about technology

[**White House page on Technology**](http://www.whitehouse.gov/issues/technology)
[**http://www.whitehouse.gov/issues/technology**](http://www.whitehouse.gov/issues/technology)
A page explaining the goals of the White House regarding technology.

[**World Technology Network**](http://www.wtn.net/)
[**http://www.wtn.net/**](http://www.wtn.net/)
Information about some of the latest developments in technology