

Science Spotlight: Online Resources for Learning

Links are available at <http://www.sciencespot.net/Pages/scienceonline.html>

Physics Resources

Featured Sites:

- ☑ [Infinite Potential](#) - Explore energy-related concepts with these modules from the JASON website.
- ☑ [EdHeads – Simple Machines](#) & [Compound Machines](#) - Learn about simple and compound machines using these interactive games. Also available ... [Crash Science](#), [Simple Machines worksheet](#), & [Science Spot: Simple Machines Links](#)
- ☑ [Coaster Creator \(JASON\)](#) - Learn the physics behind roller coasters by creating a thrilling ride!

Other Links:

[Amusement Park Physics](#)

[Energy Quest](#)

[Exploratorium Online](#)

[Shockwave Physics](#)

[Electro City](#)

[Little Shop of Physics](#)

[Nobel Prize – Physics](#)

[Energyville](#)

[FOSS Web Activities](#)

[Junkyard Wars Games](#)

[iknowthat.org Optics](#)

Chemistry Resources

Featured Sites:

- ☑ [Toxic Mystery](#) - Learn about toxic substances that can be found in a home.
- ☑ [American Chemical Society Games](#) – Six online games exploring chemistry concepts. Also check out the other classroom and online activities available in the [Science for Kids](#) area.
- ☑ [Alien Juice Bar](#) - Explore acids and bases with this activity from [LHS Gems](#). A [worksheet](#) is also available.

Other Links:

[ZOOM Kitchen Chemistry](#)

[Strange Matter](#)

[PhET Simulations](#)

[ChemBalancer](#)

[IPPEX Online – Matter](#)

[Paul’s Quest \(Polymers\)](#)

[Balancing Equations](#)

[JLab Games & Activities](#)

Earth Science Resources

Featured Sites - Weather:

- ☑ [Monster Storms](#) - Students learn about hurricanes as they analyze satellite images and storm data to predict the path and magnitude of an approaching storm. Check out their great [curriculum resources](#).
- ☑ [EdHeads – Weather](#) - Challenges students to report the weather and develop a forecast.

Other Links:

[Discovery Channel Tornado](#)

[Scholastic Interactive Weather Maker](#)

[Weather Flash](#)

[Nat Geo Kids Wildest Weather](#)

Featured Sites - Plate Tectonics & More:

- ☑ [Tectonic Fury](#) - Explore plate tectonics, rocks, and minerals with digital labs from this series.
- ☑ [Mysteries of Earth & Mars](#) - Explore the history of Mars and see how it compares with Earth

Other Links:

[Learner.org Volcanoes](#)

[Ology – Earth Science](#)

[Earthquake Simulator](#)

[PhEt Simulations for Earth](#)

[Ology – Paleontology](#)

[Virtual Volcano](#)

[Science](#)

[Earthquakes for Kids](#)

[Extreme Geo Challenge](#)

Astronomy Resources

Featured Sites:

- ☑ [AstroVenture](#) - Students find a planet and develop it for human habitation.
- ☑ [Cosmic Quest](#) - Students can design a Space Station or join an expedition to the North Pole.
- ☑ [Planet Impact](#) - Students investigate gravitational forces involved in a comet impact. Also check out the other [Amazing Space](#) adventures!

Other Links:

[NASA Kid’s Club](#)

[Search for ET](#)

[Smithsonian - Sizing Up](#)

[NASA Interactive Features](#)

[Ology – Astronomy](#)

[The Universe](#)

[Explore the Solar System](#)

[World Wide Telescope](#)

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Life Science Resources

Featured Sites – Ecology & Biology:

- ☑ [Operation Resilient Planet](#) - Students join science expeditions with practicing researchers and explorers to learn about ecology and the environment.
- ☑ [ARKive](#) - This site offers online games and learning resources for an assortment of biology topics.

Other Links:

[Great Plant Escape](#)

[Shedd Interactives](#)

[Secrets @ Sea](#)

[A Walk in the Woods](#)

[Ology – Biodiversity](#)

[Shepherd Software](#)

[Nab the Aquatic Invader](#)

[Microscope Links](#)

[Virtualfishtank.com](#)

Featured Sites - Genetics:

- ☑ [Learn Genetics](#) - An excellent site for students to learn about DNA with informative articles and online activities.
- ☑ [DNA from the Beginning](#) - This site provides genetic information along with a variety of animations and problems to help reinforce student learning.
- ☑ [Nobelprize.org](#) - Check out all the medicine-related activities available on their website.

Other Links:

[GEEE in Genome](#)

[Breeding](#)

[Eye of the Donkey \(PCR\)](#)

[Bugsville \(Download\)](#)

[Rigglesfish](#)

[Ology – Genetics](#)

[Dragonfly TV Dog](#)

[DNA Workshop](#)

Featured Sites - Human Biology & Health:

- ☑ [N-Squad](#) - Students learn about the effects of alcohol on the human body as they work with the forensic scientists to solve a mysterious death. [Teaching materials](#) are also available.
- ☑ [Reconstructors](#) - Challenge your students to these three cases to help them learn about the helpful and harmful drugs. Teaching materials are also available for each series.
- ☑ [MedMyst](#) - Students learn about infectious diseases and the scientific method as they explore the mysteries available in this module. Don't miss the "[Teachers](#)" area!
- ☑ [Outbreak at Waters Edge](#) - Students investigate an outbreak and determine its source to prevent others people from getting sick.
- ☑ [Buffet Busters](#) - Students are introduced to concepts related to food and waterborne infectious diseases as well as basic principles of epidemiology.

Other Links:

[Immune Attack](#)

[Aspire](#)

[Remission](#)

[Science Pirates](#)

[Quest for the Code](#)

[BlueKids.org](#)

[HHMI BioInteractive](#)

Math Resources

- ☑ [Shodor Interactivate](#) - A large collection of math simulations and interactive activities for every math topic!
- ☑ [National Library of Virtual Manipulatives](#) – One of the best resources for computer-based simulations and tutorials.
- ☑ [NCTM Illuminations](#) – Another great resource for quality math games!
- ☑ [Labyrinth](#) - Math-based puzzles and narrative in which students work to find their lost pet.
- ☑ [Academic Skill Builders](#) - A variety of math games that can be used on a computer or a Wii.
- ☑ [Manga Math Games](#) - A collection of free math games for middle and high school students.
- ☑ [Math Playground](#) – Over 15 manipulatives for you to use with your students.
- ☑ [BBC Math Games Wheel](#) – A collection of 12 fun math games that your students will enjoy!
- ☑ [Create-A-Graph](#) – An easy-to-use online tool to make an assortment of graphs for your science labs and activities.