

## Science (Web Resources)

[100,000 Stars](#): An interactive visualization of—you guessed it—more than 100,000 stars. 100,000 Stars was created by Google using data from NASA and the European Space Agency. Before you experience the map, you will need to [download the Chrome browser](#). We have more on it [here](#).

[Ask an Astronomer](#): In video format, scientists answer questions about the universe. For example, where is the center of the universe? What happens when galaxies collide?

[Atlas of the Universe](#): Contains maps of the universe zooming out from the nearest stars to the entire visible universe.

BioED Online: An online educational resource for educators, students, and parents. Dedicated to biology, the site offers access to [streaming video presentations](#) and a [slide library](#) that features, among other things, exciting lesson plans and activities.

[Bugscope](#): Lets K–12 students view bugs under a scanning electron microscope over the web. From the University of Illinois.

[BuiltByKids](#): Encourages next generation of makers to tackle the do-it-yourself projects of their dreams. Engineering very 101.

[CELLS Alive!](#): Brings together 30 years of computer-enhanced images of living cells and organisms for education and medical research.

[Chemistry Activities for Kids](#): Features chemistry demonstrations, crafts, and projects that are suitable for kids. Some activities require adult supervision. Assembled by Anne Marie Helmenstine, About.com Guide to Chemistry.

[Digital Universe Atlas](#): Developed by the American Museum of Natural History's Hayden Planetarium, with support from NASA, this digital atlas makes available the most

complete and accurate 3D atlas of the Universe from the local solar neighborhood out to the edge of the observable Universe. [Download it for free!](#)

[Dynamic Periodic Table](#): An interactive Web 2.0 periodic table with dynamic layouts showing names, electrons, oxidation, trend visualization, orbitals, and isotopes.

[Impact Earth!](#): An interactive tool that lets anyone calculate the damage a comet or asteroid would cause if it happened to collide with our planet. You can customize the size and speed of the incoming object, among other items.

Khan Academy Science: You can explore the Khan Academy's science and technology lessons using the following hotlinks: [Biology](#), [Chemistry](#), [Cosmology and Astronomy](#), [Healthcare and Medicine](#), [Organic Chemistry](#), [Physics](#), [LeBron Asks](#), [MIT+K12, Projects](#).

[NASA for Students](#): America's space agency provides educational media for different age groups. See [Grades K-4](#), [Grades 5-8](#), and [Grades 9-12](#).

[Eyes on the Solar System](#): A 3-D environment lets you explore the cosmos from your computer, hop on an asteroid, fly with NASA's Voyager spacecraft, see the entire solar system moving in real time. Created by NASA.

[NASA Gateway to Astronaut Photography of Earth](#): Brings together all images and videos of the Earth taken by NASA astronauts from space.

[NASA Photo Archive](#): NASA curated a big archive of historical images into Flickr Commons, giving users access to more than a half century of NASA's photographic history. The images are divided into three neat sets – “Launch and Takeoff,” “Building NASA” and “Center Namesakes” – and they're all copyright-free, meaning that you can share and use these images however you like.

[NIH Science](#): The National Institutes of Health provides a collection of educational resources for science teachers. The material is divided by topic and grade level: [High School](#), [Middle School](#) and [Elementary School](#).

[Paleontology Portal](#): This site is a resource for anyone interested in paleontology, from the student in the classroom, to the interested amateur scouting for fossils, to the professional in the lab. Funded by the [National Science Foundation](#), the site was produced by the [University of California Museum of Paleontology](#), the [Paleontological Society](#), the [Society of Vertebrate Paleontology](#), and the [United States Geological Survey](#).

[Physics to Go](#): A collection of websites where you can learn physics on your own, through games, webcasts, and online exhibits and activities. Features a collection of more than 950 websites with physics images, activities, and info. Produced by the American Physical Society.

[Robotics](#): Created by the University of Southern California, this web site is designed to help K-12 teachers and other educators in developing or improving courses that use robotics as a tool for teaching STEM topics or robotics itself. Robotics is a great way to get kids excited about science, technology, engineering, and math.

[Royal Institution Christmas Lectures](#): Back in 1825, Michael Faraday, the venerated English scientist, established [The Royal Institution Christmas Lectures for Children](#), hoping to get a younger generation interested in science, and the tradition has carried on ever since. You can watch the lectures presented by famous scientists online, including [Richard Dawkins](#) and [Carl Sagan](#).

[Science Kids](#): Provides educational resources for teachers and parents to help make science fun and engaging for kids. Features fun activities, facts, projects and experiments that promote a desire amongst kids to learn more about science and technology.

[Science News for Kids](#): Helps kids (middle school and above) stay up-to-date on scientific trends. Provides crisp, concise coverage of all fields of science daily.

[TeachEngineering.org](#): A searchable, web-based digital library collection populated with standards-based engineering curricula for use by K-12 teachers and engineering faculty to make applied science and math (engineering) come alive in K-12 settings.

[The Habitable Planet: A Systems Approach to Environmental Science](#) - A multimedia course for high school teachers and adult learners interested in studying environmental science. The Web site provides access to course content and activities developed by leading scientists and researchers in the field. Jointly created by Harvard and the Smithsonian.

[The Known Universe](#): This video takes viewers from the Himalayas through our atmosphere and the inky black of space to the afterglow of the Big Bang. The film is made with the Digital Universe Atlas ([download it here](#)) that is maintained and updated by astrophysicists at the American Museum of Natural History.

[Try Science](#): A science education resource for children, parents and educators, featuring information for kids on science, science museums, and science fair project ideas. Created by a partnership with IBM, the New York Hall of Science, the Association of Science-Technology Centers, and science centers worldwide.

[Understanding Evolution](#): Created for K-12 teachers, this online resource provides a one-stop, comprehensive resource on evolution. This site is a collaborative project of the [University of California Museum of Paleontology](#) and the [National Center for Science Education](#).

[USGS Science Resources](#): Assembled by the U.S. Geological Survey, this site brings together lots of resources that will teach students about Biology, Geography, Geology, Water, and more. The site is divided into a [K-6 section](#) and a grades [7-12 section](#).