



## Free Must-Have iPad Apps for Science

[3D Brain](#) - Use your touch screen to rotate and zoom around 29 interactive structures. Discover how each brain region functions, what happens when it is injured, and how it is involved in mental illness.

[3D Cell](#) - Visit the cell structure screen and learn more about how each structure functions. In this application you can also watch videos from our live cell video library as well.

[3D Cell Simulation and Stain Tool](#) - Learn about the cell and all its structures using this 3D cell tool. Enjoy the ability to rotate the cell 360 degrees and zoom in on any cell structure. Choose from the list of cell structures to learn more about how each structure functions and relates to the other components of the cell.

[Building Serial Circuits \(Lite\)](#) - Using 3D graphics and 2D electronic symbols, you will assemble different types of series circuits using wires, switches, batteries, and light bulbs. The free version allows you to build one circuit.

[Cell Defense: The Plasma Membrane](#) - Defend your cell by building a functional plasma membrane and thwart the evil plans of Dr. Vial to destroy all life on earth. Learn how the membrane works and its parts, including phospholipids, cholesterol, proteins, and carbohydrates.

[Earth Day Carol](#) - In this green retelling of Charles Dickens' classic A Christmas Carol, Plastic Bottle Scrooge is visited by the ghosts Plastic Past, Plastic Present, and Plastic Future.

[Elements 4D by DAQRI](#) - Paired with either paper or wood blocks that are inscribed with the symbols of 36 elements from the periodic table, this app will instantly transform a simple, inanimate object into dynamic, dimensional, 4D representations of each element.

[Exoplanet](#) - The Exoplanet app is a daily updated database of all discovered extrasolar planets. It has been developed and is maintained by a professional astronomer.

[Green Planet 4 Kids](#) - Join the Eco family as they learn everyday ways that they can become environmentally friendly in their own home, while saving money at the same time.

[HudsonAlpha iCell](#) - iCell gives students, teachers, and anyone interested in biology a 3D view inside a cell. Included are examples of three types of cells: animal, plant, and bacteria. Learn about the various parts of the cell, which biologists, biochemists, and DNA researchers at the HudsonAlpha Institute study and use to advance the limits of biotechnology.

[Interactive Science Glossary: Earth Science](#) – This app is a great review and study tool for learning 80 earth science terms and concepts, presented through simulations, video, science content, and flash cards. Categories include: Water, Weather, and Ecosystems; Earth’s Structure; Earth and Space; and The Changing Earth.

[Interactive Science Glossary: Life Science](#) – This app is a great review and study tool for learning nearly 100 life science terms and concepts, presented through simulations, video, science content, and flash cards. Categories include: Human Body, Ecosystems, Organisms and Change, Heredity, and Cells. The glossary presentation is geared toward middle and high school students and appeals to a wide range of learning styles.

[Interactive Science Glossary: Physical Science](#) – This app is a great review and study tool for learning nearly 100 physical science terms and concepts, presented through simulations, video, science content, and flash cards. Categories include: Energy and Systems, Force and Motion, Electricity and Magnetism, Matter and Energy, Light and Optics, and Sound and Waves.

[Language Central for Science Earth Science Edition](#) - Make studying vocabulary terms fun and engaging with Pearson’s Language Central for Science app featuring the Word Fly game experience! First, boost your memory with Interactive Science Flash Cards that span Life, Earth and Physical science topics. Then test your skills and take the Trivia challenge. Best for grades 6-8.

[Language Central for Science Life Science Edition](#) - Make studying vocabulary terms fun and engaging with Pearson’s Language Central for Science app featuring the Word Fly game experience! First, boost your memory with Interactive Science Flash Cards that span Life, Earth and Physical science topics. Then test your skills and take the Trivia challenge. Best for grades 6-8.

[Language Central for Science Physical Science Edition](#) - Make studying vocabulary terms fun and engaging with Pearson’s Language Central for Science app featuring the Word Fly game experience! First, boost your memory with Interactive Science Flash Cards that span Life, Earth and Physical science topics. Then test your skills and take the Trivia challenge. Best for grades 6-8.

[Leafsnap for iPad](#) - Leafsnap is the first in a series of electronic field guides being developed by researchers from Columbia University, the University of Maryland, and the Smithsonian Institution. This free mobile app uses visual recognition software to help identify tree species from photographs of their leaves.

[Lizard Evolution Virtual Lab](#) - The virtual lab includes four modules that investigate different concepts in evolutionary biology, including adaptation, convergent evolution, phylogenetic analysis, reproductive isolation, and speciation. Each module involves data collection, calculations, analysis and answering questions.

[Mitosis](#) - Mitosis walks you through the process of cell division, and explains everything that happens along the way. You'll usher cells through mitosis with your fingers, learning about what happens in each

phase of the process. You can also look at images of actual cells dividing under a microscope and see the actual structures you've studied.

[Molecules](#) - Molecules is an application for viewing three-dimensional renderings of molecules and manipulating them using your fingers. You can rotate the molecules by moving your finger across the display, zoom in or out by using two-finger pinch gestures, or pan the molecule by moving two fingers across the screen at once.

[Nature Human Genome Special Edition](#) - The Nature Human Genome iPad special edition contains landmark research as well as exclusive video commentary from Nature's genetics editor, who discusses the past, present and future of genomics

[Oobie's Space Adventure](#) - Oobie's Space Adventure is an original interactive story that teaches kids about space. Join Oobie as he discovers the planets, sun, stars and more.

[Particle Zoo](#) - Would you like to get to know the particles that make up our universe a little better? Then carry this convenient list of subatomic particles in your pocket.

[Science360 for iPad](#) - The National Science Foundation's (NSF) Science360 for iPad provides easy access to engaging science and engineering images and video from around the globe and a news feed featuring breaking news from NSF-funded institutions.

[Science Learning Hub](#) - Produced for primary and secondary school teachers and their students, the content has been developed by New Zealand's leading science educators, scientists and research organizations to provide real life, authentic examples of science in action.

[Snurfle Meiosis](#) - By the end of this game, you will understand how meiosis and fertilization work to make offspring. You will also see how genetic characteristics are passed on through these processes and the connection between meiosis and genetics.

[Snurfle Meiosis and Genetics 2: Diversity and Dihybrid Crosses](#) - By the end of this game, you will understand how the processes of crossing over, independent assortment, and random fertilization result in increased diversity of offspring.

[The Virtual Bacterial ID Lab](#) - Learn about the science and techniques used to identify different types of bacteria based on their DNA sequences. The app is geared toward high school students.

[Virtual Cell Animations](#) – The modules covered are aerobic respiration; cellular respiration; meiosis and mitosis; photosynthesis; protein expression; RNA expression; secretion; and signaling.

[Xperica HD](#) - The app places an interactive virtual laboratory in the hands of students worldwide. The app comes preloaded with a couple of experiments. Additional experiments can be purchased as add on packs.