

Subject Specific Recommended Apps: Science K-12*

The following productivity and creativity apps for science are not independent, meaning they are tools for students to use in the context of a lesson, activity, or exploration designed by a teacher. These apps do not provide pre-made activities, lessons, or prompts for students. Paid apps must be funded by schools or departments for student access. None of the apps listed below are considered necessary or required for science instruction.

Astronomy

	<u>Star Walk</u> (Paid app) Grades K-12	A stargazing app that will become your go-to interactive astro guide to the night sky, following your every movement in real-time and allowing you to explore over 200, 000 celestial bodies with extensive information about stars and constellations that you find.
	<u>Solar Walk</u> (Paid app) Grades 5-12	This 3D Solar System model lets you navigate through space and time, see all the planets in close-up, learn their trajectories, inner structures, history of their exploration, points of interest and more.
	<u>Moon Calendar</u> (Paid app) Grades K-12	View the moon calendar for any month, any location, including moonrise, moonset, sunrise and sunset times. Find the exact time a full moon, new moon, first & last Quarter occurs and the elevation and azimuth of moon at any time.
	<u>Planet Pop</u> (Paid app) Grades K-12	Find out how much — or how little! — you might weigh on other planets, some of the moons that orbit them, and even the Sun.
	<u>NASA</u> (Free app) Grades K-12	Come explore with NASA and discover the latest images, videos, mission information, news, feature stories, tweets, NASA TV and featured content.
	<u>NASA Visualization Explorer</u> (Free app) Grades K-12	Get stories about advanced space-based research and a direct connection to NASA's extraordinary fleet of research spacecraft, this app presents cutting edge research stories in an engaging and exciting format.
	<u>NASA Science</u> (Free app) Grades K-12	The latest information from NASA's Science Missions, including the spacecraft, their instruments, the data, and what we are learning about the questions we seek to answer.

General Science

	<u>The Scientific Method</u> (Free app) Grades 6-12	The Scientific Method App is a wonderful resource to reference all those formulas that you just can't seem to remember. formulas from Algebra, Geometry, Trigonometry, Calculus, Physics, Computer Science, Electricity, and a Periodic table.
	<u>Unit Converter Pro HD</u> (Free app) Grades 4-12	Helps you make easy conversion between more than 1202 various units of measure in more than 55 categories.

	Science360 (Free app) Grades K-12	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.
	Sound Uncovered (Free app) Grades K-12	Explore the surprising side of sound with Sound Uncovered, an interactive book featuring auditory illusions, acoustic phenomena, and other things that go bump, beep, boom, and vroom.
	Color Uncovered (Free app) Grades K-12	Explore the surprising side of color with Color Uncovered, an interactive book that features fascinating illusions, articles, and videos developed by the Exploratorium.
	Aurasma (Free app) Grades K-12	Aurasma is an augmented reality app that allows you to bring tagged images, objects and even physical locations to life with interactive digital content, such as video, animations and 3D scenes.
	AR Flashcards Animal Alphabet (Free app) Grades K-3	AR Flashcards make learning fun with the technology of Augmented Reality! 26 beautifully rendered Animals to help your toddler or preschooler learn the alphabet!
	AR Flashcards Space (Free app) Grades K-3	AR Flashcards make learning fun with the technology of Augmented Reality! 10 beautifully rendered planetary objects to help your student learn about the solar system!
	The Brain AR (Free app) Grades 5-12	The augmented reality app lets you explore the layers of the head from skin, muscle and skeleton down to the inner areas of the brain. Gain an amazing insight into the tissues, structures and areas of the mind by moving the device around.
	Zydeco Inquiry (Free app) Grades 5-12	Now students can do science inquiry on-the-go in fun and engaging ways! Centered on an open-ended question, this iPad app comes with all the tools needed to help engage in planning scientific investigations.

Biology

	A Life Cycle App (Paid app) Grades K-5	Introduce students to how life starts, morphs through various stages and how life starts all over again. Follow a systematic flow through stages at regular intervals.
	Pepa and the Butterfly (Paid app) Grades K-3	Teach students about the complete Life Cycle of the Monarch Butterfly, learning new words and concepts along the way.
	Life of a Monarch Butterfly (Free app) Grades K-5	An interactive application for teaching the life cycle of a butterfly. The lesson can be done as a whole class or one-on-one.

	<p><u>Meet the Insects: Village Edition</u> (Paid app) Grades K-5</p>	<p>High quality photos and videos, comprehension quizzes, journal encourages the student to study insects in the real world.</p>
	<p><u>Mini-Monsters</u> (Paid app) Grades K-5</p>	<p>A photographic and educational exploration of the wonderful microscopic world of insects, bugs, spiders, beetles, worms and countless other creepy crawlies.</p>
	<p><u>World of Animals</u> (Paid app) Grades K-5</p>	<p>This app gives students of all ages plenty of opportunities to explore, compare, rank, and quiz themselves on their favorite animals. Featuring hundreds of stunning pictures and videos.</p>
	<p><u>Dinosaur Days</u> (Free app) Grades K-5</p>	<p>An animated learning app for students aged 5-11 that includes short animated films about these mysterious, ancient creatures goes into detail about how they lived, what they ate, how they developed and how they were discovered.</p>
	<p><u>Smash Your Food</u> (Paid app) Grades K-8</p>	<p>Watch your students smash a burger, crush a milkshake, explode a soda and pound a pizza, all while learning about nutrition.</p>
	<p><u>Whack A Bone</u> (Paid app) Grades K-5</p>	<p>A game designed to draw beginners into the curious and fascinating world of anatomy, guiding them toward a commanding recall of the major bones of the human body.</p>
	<p><u>Frog Dissection</u> (Paid app) Grades 6-12</p>	<p>A greener alternative for teaching dissection in the classroom. This iPad app is suitable for middle-school students who are learning about organs and organ systems.</p>
	<p><u>HD Marine Life</u> (Paid app) Grades 6-12</p>	<p>The Marine Life Encyclopedia is a beautiful and deep digital study, and developed thinking of those who love the great and extensive sea.</p>
	<p><u>Cell and Cell Structure</u> (Paid app) Grades 6-12</p>	<p>Written for middle school students, and also provides a great review for high school students. Learn about life's smallest unit – the cell. Students and teachers will appreciate the detailed 2D and 3D imagery, stunning graphics and in-depth content.</p>
	<p><u>The Human Body by Tinybop</u> (Paid app) Grades 4-12</p>	<p>Explore a working model of the body. Every part is animated and interactive: Designed for students grades K-12 to discover what we're made of and how we work.</p>
	<p><u>My Incredible Body</u> (Paid app) Grades 4-12</p>	<p>Zoom inside the body to learn where everything is and how everything works. Experience how blood flows, how messages travel to and from your brain, and where food goes after you eat</p>

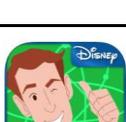
	<u>Instant Heart Rate</u> (Free app) Grades 4-12	Instant Heart Rate uses your iPhone's camera to detect the pulse from your fingertip - leveraging similar technique as used in pulse oximeters.
	<u>3D Brain</u> (Free app) Grades 6-12	Use your touch screen to rotate and zoom around 29 interactive structures. Discover how each brain region functions, what happens when it is injured, and how it is involved in mental illness.
	<u>Animated Essential Atlas of Anatomy</u> (Free app) Grades 6-12	The first of its kind to provide in depth details about the systems covered through 3D animations and videos.
	<u>Essential Skeleton</u> (Free app) Grades 5-12	Essential Skeleton 3 is a fully functional, self-contained app covering the essential anatomy of the skeleton.
	<u>Heart Pro III</u> (Paid app) Grades 5-12	An app for physicians and educators, allowing them to visually show detailed areas of the heart and / or animations to their patients or students
	<u>Skeleton System Pro III</u> (Paid app) Grades 5-12	Ideal for physicians and educators, allowing them to visually show detailed areas of the skeletal system to patients or students, helping educate or explain conditions, ailments and injuries.
	<u>Student Muscle System</u> (Paid app) Grades 5-12	Ideal for students and educators, in helping to locate a muscle and / or explain its relevance for certain conditions, ailments and injuries.
	<u>Anatomy 4D</u> (Free app) Grades 5-12	4D Anatomy takes viewers inside the human body via augmented reality, a simple-to-use 3-dimensional learning environment. Perfect for use in the classroom, or anytime.

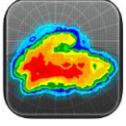
Chemistry

	<u>Chemistry Formulas</u> (Paid app) Grades 6-12	A collection of over 1150+ Physics, Chemistry and Maths formulas, designed with a view of user convenience in searching, locating & referring a formula.
	<u>Chemistry Formula Practice</u> (Paid app) Grades 6-12	Stimulates students' mastery of the fundamental skill of naming compounds and writing formulas.
	<u>How to Solve - Molar Mass</u> (Paid app) Grades 6-12	Self-paced educational apps where we focus on learning how to solve specific types of problems in science commonly presented in middle school, high school, or college.

	<u>ChemIQ</u> (Free app) Grades 6-12	The objective of this game is to solve (balance) chemical equations.
	<u>The Elements</u> (Paid app) Grades 5-12	An engaging visual exploration of the building blocks of our universe told in words and pictures
	<u>VSB Chemistry</u> (Free app) Grades 6-12	The Chemistry Virtual Smart Book Course (VSB) introduces students to the basics of chemistry, matter and energy, and the interaction between them. Lessons are presented through engaging videos
	<u>NOVA Elements</u> (Free app) Grades 5-12	Explore an interactive periodic table, play a game hosted by David Pogue, or watch the two-hour NOVA program, "Hunting the Elements."
	<u>Molecules</u> (Free app) Grades 5-12	Molecules is an application for viewing three-dimensional renderings of molecules and manipulating them using your fingers.
	<u>Video Science</u> (Free app) Grades K-12	A growing library of over 80 hands-on Science lessons that are great for home and the classroom. These short videos demonstrate inexpensive and easy to recreate experiments that are designed to inspire and excite kids of all ages.

Earth Science

	<u>Bobo Explores Light</u> (Paid app) Grades 4-12	An app that takes fundamental scientific concepts for students and injects them with humor, astonishment and whimsy. Over 100 pages of exciting, interactive content and 21 in-depth topics such as lasers, lightning, and bioluminescence
	<u>Bill Nye The Science Guy</u> (Free app) Grades 3-9	Science rules, especially when you grab a seat at The Science Guy's desk and help yourself to heaping handfuls of science. Just scan your thumb to gain entrance to Nye Labs, the most amazing, scientifically fascinating place on Earth
	<u>Leafsnap</u> (Free app) Grades 4-12	An app that uses visual recognition software to help identify tree species. Leafsnap contains beautiful high-resolution images of leaves, flowers, fruit, petiole, seeds, and bark.
	<u>Trees PRO HD</u> (Free app) Grades 4-12	An ideal guide to the most common North American and European trees on your iPad. With the built-in quiz you will also learn quickly to distinguish between different species.

	<u>The Water Cycle</u> (Free app) Grades 4-12	An interactive showing the four stages of a Water Cycle in a simplified visual manner.
	<u>Rocks & Minerals</u> (Paid app) Grades 4-12	A fun interactive app for students to learn about various rocks & minerals found on Earth. Lots of high quality real-world pictures & simple facts along with quizzes.
	<u>Volcanoes</u> (Free app) Grades 4-12	An app that displays currently active volcanoes on a map and provides additional information on volcanic activity for the last week. Very useful information when combined with seismic activity data.
	<u>Britannica Kids: Volcanoes</u> (Paid app) Grades 4-12	Learn about the world's major volcanoes and their eruptions, lava, plate tectonics, and much more. Learn and play at the same time through a variety of information, videos and games.
	<u>MyRadar Weather Radar</u> (Free app) Grades 5-12	MyRadar is a fast, easy-to-use, weather application that displays animated weather radar around your current location, allowing you to quickly see what weather is coming your way.
	<u>EarthViewer</u> (Free app) Grades 5-12	EarthViewer is like a time machine for exploring Earth's deep history. Based on the latest scientific research, it lets you scroll through the last 4.5 billion years with your fingertips
	<u>WunderStation</u> (Free app) Grades 5-12	WunderStation allows you to customize how you view and analyze weather data and brings you current conditions, forecasts, and historical weather data from a network of over 37,000 weather stations. View, analyze, share and compare data from local personal weather stations with graphs, animated wind direction, rainfall totals, and more!

Physics

	<u>Newton's Laws</u> (Paid app) Grades 4-12	Study and understand Newton's Laws of Motion using a gaming grade physics engine to simulate all the effects right before your eyes. No more reading abstract text books - see, touch and experience physics at your fingertips.
	<u>Simple Physics</u> (Paid app) Grades 6-12	Simple Physics lets you design complex structures for everything from tree houses to ferris wheels and then simulates your design with a sophisticated physics engine.
	<u>Simple Machines by Kids Discover</u> (Paid app) Grades 4-9	An app that keeps both students and adults longing to learn more. Exploring what do levers, wheels, screws, wedges, and pulleys all have in common? They are all simple machines! Simple machines are devices that make work easier, and they can be found all around you.

	<p><u>Physics Formulas</u> (Paid app) Grades 6-12</p>	<p>Formula MAX is a universal app with a collection of over 1150+ Physics, Chemistry and Maths formulas, designed with a view of user convenience in searching, locating & referring a formula.</p>
	<p><u>VSB Physics</u> (Free app) Grades 6-12</p>	<p>An app dedicated to explaining principal concepts in physics such as projectile, trajectory, motion, Newton's law, and kinematics. All of these will be integrated to give the learner a higher comprehension of the subject.</p>
	<p><u>Vernier Video Physics</u> (Paid app) Grades 6-12</p>	<p>Perform on-the-go analysis of interesting motions. Measure the velocity of a child's swing, a roller-coaster, or a car. Or, take a video of a basketball free throw shot. Video Physics will display the path of the ball and provide graphs of Y vs X as well as the X and Y position and velocity as a function of time.</p>
	<p><u>Seismometer</u> (Paid app) Grades 4-12</p>	<p>Measure everything that vibrates, shakes or moves. Seismometer uses your iPhone's built in accelerometer to measure movements in two axes, calculate the resulting energy and draw the results on a rolling logarithmic scale.</p>

*Created by St. Vrain Valley School District