

Smartphone Apps for Science Math

Rose-Hulman PRISM has found the following Android and iOS (Apple/iTunes) Apps to be useful to students of Science. PRISM has chosen apps that have had the best reviews posted online and are FREE downloads for the students.

Academic Standards	Description	Online Web Address (url)	
		Android	iphone (iOS)
Indiana Academic Standards	View your state standards in one convenient FREE app! A great reference for teachers, parents, and students to easily read and understand the standards. Quickly find and search standards by subject, grade level, and key word.	https://play.google.com/store/apps/details?id=com.masteryconnect.in&hl=en	https://itunes.apple.com/us/app/indiana-academic-standards/id920898036?mt=8
Science Apps	Please note: PRISM is a test-bed for educators to try out web-based resources that they might not otherwise have convenient access to. PRISM makes no explicit or implied warranty for data security and accepts no liability of any kind for any harm, damage, or loss which any persons or organizations may incur as a result of using these online resources.		
Biology	Description	Online Web Address (url)	
		Android	iphone (iOS)
AP Exam Prep Biology Lite by K12 Inc.	<ul style="list-style-type: none"> This app is designed for tablets 7" or larger. View an intuitive, highly organized, topic-by-topic study guide of all 72 topics and concepts on the AP-approved course outline Each topic includes main ideas, keywords, essential questions and model answers, and a bulleted list of key concepts Get access to a 795-page eBook with a concise summary of each topic Easily flag each topic as mastered or to be studied 	http://www.amazon.com/AP-Exam-Prep-Biology-LITE/dp/B0011J79Q0	https://itunes.apple.com/us/app/ap-exam-prep-biology-lite/id832933457?mt=8
A-Level Biology by Learner's Box	<p>Have you had enough of revising out of the textbook? Have you made countless mind maps, flow charts and diagrams to aid revision? You've also made your own notes but you still can't get enough revision.</p> <p>Now imagine you could quickly learn the carbon cycle whilst on the bus. Quickly check that diagram on the digestive system whilst sitting on the toilet or even how your eye works whilst watching TV. Now that would be amazing.</p> <p>Copyright © LearnersBox 2015</p>	https://play.google.com/store/apps/details?id=com.learnersbox.a.level.biology&hl=en	
Biology Today by Magster Inc.	<p>Biology Today is one among the four competitive magazines published by MTG Learning Media Pvt. Ltd. With a readership of more than one crore readers, MTG Learning Media Pvt. Ltd. is a pioneer in the education publishing business in India, catering to the needs of IIT and PMT aspirants. Established in 1982, the group is committed to improving the quality of science education, enhancing students' interest in science, fostering their analytical ability and, most importantly helping thousands of young engineering and medical aspirants to become successful professionals – their cherished dream.</p> <p>Biology Today supplies the essential material such as important texts, sample papers, previous years' papers, flowcharts and memory tips required for achieving success in pre-medical exams.</p>		https://itunes.apple.com/us/app/biology-today/id583702070?mt=8
Complete Biology by Tuscany Tech	<p>Complete biology app is among the best biology app in the market. It focuses on secondary / high school students, undergraduate students and biology teachers.</p> <p>With more than 35 topics in Biology, students will learn everything they need in preparation for their exams.</p> <p>The app has around eight categories that deal with tutorials, formula, possible exam questions, biology practical and dictionary.</p>	https://play.google.com/store/apps/details?id=com.toscanyacademy.completebiology&hl=en	
Biology I by Bold Type Media	<p>Bold Type Media: Biology I is a study app to help you master first semester college level Biology. This app will save you hours of writing out your own flash cards. Some features of this application include, designing your own quizzes or choosing one of the Quick Quiz buttons to generate a quiz. The View Questions section allows you to study all the questions and answers. You can hide and flag questions for later review as well.</p> <p>The Stats section gives you a visual and numerical representation of your progress in answering questions of the quizzes you have generated.</p> <p>There are over 1000 questions arranged into the following subjects.</p>		https://itunes.apple.com/us/app/biology-1/id401116036?mt=8

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Physics	Description	Online Web Address (url)	
		Android	iphone (iOS)
QV Prep Lite High School & College Physics by PJP Consulting LLC	<p>FREE QVprep Lite High School and College Physics Volume 1 : Learn Test Review Physics concepts for Grade 11 12 and college, AP advanced placement SAT Subject test exam preparation</p> <p>QVprep Lite High School and College Physics Volume 1 is FREE and has limited content. The app gives you the option to buy the paid version which has exhaustive content for preparation and gaining expertise in High School and College level Physics. Please download this FREE app and try it out.</p>	http://www.amazon.com/FREE-QVprep-School-College-Physics/dp/B00GGQANBA/ref=sr_1_2?s=mobile-apps&ie=UTF8&qid=1452696415&sr=1-2&keywords=qvprep+lite+high+school+%26+college+physics	https://itunes.apple.com/us/app-bundle/qvprep-bundle-high-school/id926020829?mt=8
Physics Formulas Free by NSC Co.	<p>From the success of Maths Formulas app, Physics Formulas has been developed and released to help users quickly refer to any Physics formulas for their study and work. This app displays most popular formulas in seven categories:</p> <ul style="list-style-type: none"> - Mechanics - Electricity - Thermal physics - Periodic motion - Optics - Atomic physics - Constants <p>This app has all functions to help users use the app conveniently.</p>	https://play.google.com/store/apps/details?id=com.nsc.pt.free&hl=en	
Physics Formula Calculator LITE by Vincent Programming	<p>The full version has over 70 formulas that allow the user to solve for not one, but all of the variables in each formula. Much more useful than a basic reference app.</p> <p>Perfect for HW!</p> <p>Topics:</p> <ul style="list-style-type: none"> -Newtonian Mechanics -Electricity and Magnetism -Fluid Mechanics -Thermal Physics -Atomic and Nuclear Physics -Waves and Optics 	https://play.google.com/store/apps/details?id=com.pfc.lite&hl=en	
iEquals Free Formula Solver by Mathieu Leclerc	<p>A number without units is meaningless... and so is a formula solver without units. Put your calculator down and let iEquals Free built-in unit conversion technology perform these calculations for you, accurately, every time. Get the best free iOS formula solver in the palm of your hand!</p> <p>iEquals Free Formula Solver for iPhone is designed for high school and university students with simplicity and functionality in mind. Select from one of 42 common scientific equations and immerse yourself in the unique easy to use interface. Enter your known values leaving one variable empty, choose from hundreds of units, and tap iEquals to solve for the unknown value. Use this tool to enhance your learning experience, double check your homework, move on to the next question and stop wondering if your previous answer was correct.</p>		https://itunes.apple.com/app/iequals-free-formula-solver/id676403730?mt=8
Pocket Physics by Geckonization Education	<p>Pocket Physics is an easy-to-use, free, education app that covers most of physical formulas with descriptions and images. It is perfect for students to do physics homework quickly and accurately.</p> <p>Key features:</p> <ul style="list-style-type: none"> - Perfect for students to do physics homework quickly and accurately. - It is suitable for all levels of physics from high school to university. 	https://play.google.com/store/apps/details?id=Gecko.Droid.PhysicsHelper&hl=en	
Anatomy & Physiology	Description	Online Web Address (url)	
		Android	iphone (iOS)
Anatomy Learning -- 3D Atlas by Anatomy Learning	<p>Anatomy Learning 3D - Anatomical 3D Real-time Viewer . AnatomyLearning is an app designed to facilitate the learning of human anatomy. Intended for future healthcare professionals, is presented as the most precise existing anatomical model. AnatomyLearning is involved with the community of teachers and students. The suggestions and reports of our users are heard and taken into account to grow day by day offering quality service.</p>	https://play.google.com/store/apps/details?id=com.AnatomyLearning.Anatomy3DViewer3&hl=en	

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<p>Speed Anatomy by Benoit Essiambre</p>	<p>During gameplay the name of a body part appears at the top of the screen. You must touch its location on the picture of the body within a set amount of time. Get it correct and you score points; get it wrong and you get nothing. The correct location then lights up to show you the right answer.</p> <p>This is a must-have app if you are tackling anatomy for high school, college, or medical school—much more captivating than flash cards. The practice mode allows you to study specific parts of the body without doing all the previous levels.</p>	<p>http://www.amazon.com/Benoit-Essiambre-Speed-Anatomy/dp/B0050KUR05/ref=sr_1_17s=mobile-apps&ie=UTF8&qid=1452698058&sr=1-1&keywords=Speed+Anatomy</p>	<p>https://itunes.apple.com/us/app/speed-anatomy-lite-quiz/id356127528?mt=8</p>
Environmental Science		Online Web Address (url)	
		Android	iphone (iOS)
<p>AP Exam Prep Environmental Science LITE by K12 Inc.</p>	<ul style="list-style-type: none"> • View an intuitive, highly organized, topic-by-topic study guide of all 37 topics and concepts on the AP-approved course outline • Each topic includes main ideas, keywords, essential questions and model answers, and a bulleted list of key concepts • Easily flag each topic as mastered or to be studied • Answer realistic AP exam-style multiple choice questions in three modes 	<p>http://www.amazon.com/Exam-Prep-Environmental-Science-LITE/dp/B00J0BS2XE/ref=sr_1_1?s=mobil-e-apps&ie=UTF8&qid=1452698331&sr=1-1&keywords=AP+Exam+Prep+Environmental+Science+LITE</p>	<p>https://itunes.apple.com/us/app/ap-exam-prep-environmental/id832390766?mt=8</p>
Chemistry		Online Web Address (url)	
		Android	iphone (iOS)
<p>Quick Periodic Table by Quick Learning LLC</p>	<p>Quick Elements offers rapid access to information on the elements useful for anyone in the sciences and engineering. Four periodic tables summarize a variety of information. Separate screens for all 118 elements provide 22 specific types of data. Access to that data is provided by a searchable list of elements that the user can organize by atomic number, symbol, or name.</p> <p>Choose from four different table views:</p> <ul style="list-style-type: none"> - Groups: Elements are grouped into seven chemical categories - Class: Metals, Non-metals, and Metalloids - Representative Elements: Main-group elements grouped according to valence electron configuration - Orbital Blocks: Elements are grouped according to the highest-energy occupied orbital 		<p>https://itunes.apple.com/us/app/quick-periodic-table-elements/id467937518?mt=8</p>
<p>Periodic Table by JQ Soft Education</p>	<p>Best periodic table of chemical elements. Chemistry in your pocket. Features:</p> <ol style="list-style-type: none"> 1) 118 elements 2) Atomic, thermodynamic, material, electromagnetic, nuclear properties and reactivity for each element 3) Electron shell diagram for each element 4) Solubility chart 	<p>https://play.google.com/store/apps/details?id=jqsoft.apps.periodictable.hd&hl=en</p>	
<p>Complete Chemistry by Tuscany Tech</p>	<p>Complete Chemistry focuses on students learning chemistry. The app covers tutorials, solver, quiz, formulas and dictionary. It covers all you need to know to understand chemistry concepts. The chemistry practical exposes you to periodic table and dilution calculation.</p> <p>Complete chemistry offers a quiz section for evaluating your knowledge and areas you need to improve on chemistry.</p> <p>The app also has a note section where you can save notes of items you want to remember or a summary of certain concept.</p>	<p>https://play.google.com/store/apps/details?id=com.toscanyacademy.completechemistry&hl=en</p>	
<p>Chemistry Helper by Adam Hogan</p>	<p>A simple app designed as a quick reference for chemistry students. Includes a periodic table with links to wikipedia, a tool to calculate molecular masses of compounds (with a button at the top to perform simple grams/moles calculations, calculate mass percents and do stoichiometry with that compound), a table of polyatomic ions, constants, solubility rules, tools for calculating molarity and volume of solutions, tools for converting between units commonly used in chemistry, compound lookup that links to major chemical search engines (and wikipedia, of course), a table of reduction potentials, organic chemistry functional groups, IR, H1 NMR and C13 NMR spectroscopy tables and a table with common ligands.</p>	<p>https://play.google.com/store/apps/details?id=com.adamhogan.android.chemtutor&hl=en</p>	

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<p>ChemPro: Chemistry Tutor by 101 Education, LLC</p>	<p>The best way to learn chemistry on your Android device. Introducing Chem Pro, the chemistry tutor in your pocket, and the only resource you will need to excel in AP Chemistry or General Chemistry this year. Chem Pro features an exclusive lesson library containing a total of 80 videos that cover the entire course of AP and General Chemistry. See what thousands of high school and college students across the world have been raving about. This life saving app is now available on Android!</p>	<p>https://play.google.com/store/apps/details?id=com.ihelpnvc.chempro&hl=en</p>	
<p>Khan Academy Chemistry by Ximarc Studios, Inc.</p>	<p>Ximarc Studios Inc is proud to bring you Khan Academy Chemistry 1 (videos 1-20). Khan Academy Chemistry allows students to learn Chemistry through various videos which are downloaded directly on your iPhone or iPod touch and in the future to your iPad. Students can watch the video anywhere, anytime, all the time and NEVER be concerned about having access to the internet while you are going through a Khan Academy lesson.</p>		<p>https://itunes.apple.com/us/app/khan-academy-chemistry-1/id352459168?mt=8</p>
<p>Molarity Calculator by Sigma-Aldrich</p>	<p>The Molarity App from Sigma-Aldrich(R) is a chemistry calculator tool that generates lab-ready directions describing how to prepare an acid or base solution of a specified molarity or normality from a concentrated acid or base solution. A second tab includes a general molarity function that calculates the mass of any reagent needed to prepare a given volume of solution of desired molarity. A third tab features a stock dilution function that calculates how to dilute a stock solution of any known molarity to your desired volume and molarity.</p>	<p>https://play.google.com/store/apps/details?id=com.sjal.molarity</p>	<p>https://itunes.apple.com/us/app/molarity/id424676349?mt=8</p>
<p>Solution Calculator Lite by Cooloy.com</p>	<p>"Solution Calculator" is a handy tool for students taking chemistry classes, or researchers/scientists working in a biology, chemistry or biochemistry laboratory. It has the following three major functions: (1) It has a convenient calculator for making chemical solutions and for diluting solutions using a stock solution. It helps you to quickly determine how much chemical/stock solution you need. You do not need to mess around with your calculator and can spend more time in your study or research. (2) It contains a handy tool to calculate molecular weight (M.W.) of commonly used chemicals in the lab. You do not need to enter the name or molecular formula of the chemical, you just need to press a few buttons to get the MW of the chemical instantaneously. (3) It also provides a periodic element table, with detailed information about each of the 118 elements.</p>	<p>https://play.google.com/store/apps/details?id=com.cooloy.SolutionCalculator</p>	
<p>Math Apps</p>	<p>Please note: PRISM is a test-bed for educators to try out web-based resources that they might not otherwise have convenient access to. PRISM makes no explicit or implied warranty for data security and accepts no liability of any kind for any harm, damage, or loss which any persons or organizations may incur as a result of using these online resources.</p>		
<p>Algebra</p>	<p>Description</p>	<p>Online Web Address (url)</p>	
		<p>Android</p>	<p>iphone (iOS)</p>
<p>Algebra Genie By ZeGenie Inc.</p>	<p>Next-generation interactive textbook, at the fraction of the cost of tutoring or your current paper textbook!</p> <p>The most complete and interactive Algebra course, developed by over 100 Algebra teachers and used by millions of Algebra students worldwide. The Algebra Genie gets you learning quickly while having fun. Developed using the latest in game mechanics, we have spared no cost to make sure we have the best learning app covering Algebra!</p> <p>Over 250 interactive and dynamic lessons, covering all the important Algebra topics, to get you into college quickly!</p>		<p>https://itunes.apple.com/us/app/algebra-%09genie/id481026577?mt=8</p>
<p>Algebra Tutor by Student Portal</p>	<p>Algebra Tutor is a simple calculator for all math students and people who have problems with trigonometry. Algebra Tutor is a very simple and easy-to-use application. You just enter the number you need and get full information about sines, radians, degrees, etc. Nothing difficult!</p> <p>Algebra Tutor is an useful application for pupils and students, who have problems with math or algebra. You don't have to remember all this difficult formulas anymore! Don't be afraid of all these difficult numbers and formulas, using of Algebra Tutor is very simple. Just enter a number and receive a result, or just see a formula. Learn more about math and make your life easier with Algebra Tutor!</p>	<p>http://www.amazon.com/Student-Portal-Algebra-%09Tutor/dp/B00KD8G2LK/ref=sr_1_5?ie=UTF8&qid=1413918189&sr=1-5</p>	

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<p>Khan Academy – Algebra I – by Ximarc Studios Inc</p>	<p>Ximarc Studios Inc is proud to bring you Khan Academy Algebra 1 (videos 1-36). Khan Academy Algebra allows students to learn Algebra through various videos which are download directly on your Iphone or Ipad touch and in the future to your Ipad. Students can watch the video anywhere, anytime, all the time and NEVER be concerned about having access to the internet while you are going through a Khan Academy lesson. Ximarc Studios will continue to bring you great video lessons from the Khan Academy.</p>		<p>https://itunes.apple.com/us/app/khan-academy-algebra-1/id358519986?mt=8</p>
<p>Calculus</p>	<p>Description</p>	<p>Online Web Address (url)</p>	
<p>AP Exam Prep Calculus AB LITE by K12 Inc.</p>	<p>Study smarter for the AP® Calculus AB exam with the most comprehensive, integrated review and practice tools available on tablets. Whether you're just starting an AP course or you're cramming for a 5 on the big test, AP Exam Prep Calculus AB will help organize and maximize your study time in the areas you need to focus on most.</p>	<p>http://www.amazon.com/AP-Exam-Prep-Calculus-%09LITE/dp/B00J0BNFRK/ref=sr_1_fkmr0_1?is_mobile=%09apps&ie=UTF8&qid=1413918420&sr=1-1-%09fkmr0&keywords=%E2%80%A2+AP+Exam+Prep+Calculus+AB+LITE+by+%09K12+inc</p>	<p>https://itunes.apple.com/us/app/ap-exam-prep-%09calculus-ab-lite/id832335196?mt=8</p>
<p>Geometry</p>	<p>Description</p>	<p>Online Web Address (url)</p>	
<p>Geometry Class Free by Supertools</p>	<p>Geometry Class is a perfect educational application, calculator and math helper for all the pupils and students. Geometry Class will help you to understand some geometry's rules and formulas. It contains all kinds of detailed information that you can easily understand by yourself without a teacher. It will also help you with solving geometrical problems of any difficulty. Make your student's life easier with Geometry Class!</p>	<p>http://www.amazon.com/Supertools-Geometry-Class-Free/dp/B00KAS51CO/ref=sr_1_1?mobile-apps&ie=UTF8&qid=1413918610&sr=1-1&keywords=Geometry+App</p>	
<p>GeoGebra by By International GeoGebra Institute (IGI)</p>	<p>GeoGebra (www.geogebra.org) is free dynamic mathematics software for all levels of education that brings together geometry, algebra, spreadsheets, graphing, statistics and calculus in one easy-to-use package. Interactive learning, teaching and evaluation resources created with GeoGebra can be shared and used by everyone at tube.geogebra.org. GeoGebra is the world's favorite dynamic mathematics software, has received numerous educational software awards, and supports STEM education and innovations in teaching and learning worldwide.</p>		<p>https://itunes.apple.com/us/app/geogebra/id687678494?mt=8</p>
<p>All Math Areas</p>	<p>Description</p>	<p>Online Web Address (url)</p>	
<p>My Script Calculator by MyScript</p>	<p>**MyScript Calculator: The Free handwriting calculator for your Android device** With MyScript® Calculator, perform mathematical operations naturally using your handwriting. Easy, simple and intuitive, just write the mathematical expression on the screen then let MyScript technology perform its magic converting symbols and numbers to digital text and delivering the result in real time. The same experience as writing on paper with the advantages of a digital device (Scratch-outs, results in real time, ...</p>	<p>http://www.appsapk.com/myscript-calculator/</p>	<p>https://itunes.apple.com/us/app/myscript-calculator/id578979413?mt=8</p>
<p>PhotoMath by PhotoPay Ltd.</p>	<p>Photomath is the world's smartest camera calculator! Simply point the phone's camera toward a math problem and Photomath will magically show the result with detailed step-by-step solution. Our new math keyboard can be used to easily edit or type in math problems. With the new keyboard, Photomath can replace calculator and will become your everyday learning companion. Millions of students worldwide use Photomath to help them when they are stuck with a math problem. And many parents use it too! Photomath currently supports arithmetics, fractions, decimal numbers, linear equations, equation systems and several functions like logarithms. More complex problems like integrals, trigonometry and derivatives are also supported but currently without detailed solving steps. Support for new math is constantly added as we aim to pack in more and more math knowledge.</p>	<p>https://play.google.com/store/apps/details?id=com.microblink.photomath&hl=en</p>	<p>https://itunes.apple.com/us/app/photomath/id919087726</p>

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<p>f(x) Mathematics by daboapps</p>	<ul style="list-style-type: none"> - curve sketching, lines, minima, maxima - linear algebra, vectors, matrices - unit conversion - number systems, binary/oct/decimal/hex calculator - complex number calculation 	<p>https://play.google.com/store/apps/details?id=de.daboapps.mathematics&hl=en</p>	
<p>Math Workout by Brain Training</p>	<p>Keep your mind healthy, test your mental math and exercise your brain once a day.</p> <p>Math/Maths Workout is a set of daily brain training exercises and math drills designed to enhance mental arithmetic.</p> <p>FEATURES</p> <ul style="list-style-type: none"> ▶ Inspired by Kumon ▶ Compete in the World Challenge ▶ Fly the Math Blaster ▶ Track your progress with charts ▶ Fun for all ages ▶ Helps keep you sharp 	<p>https://play.google.com/store/apps/details?id=com.akbur.mathsworkout&hl=en</p>	
<p>Maths Formulas by NSC Co.</p>	<p>Available in many languages, this is a perfect app on Google Play that provides all basic formulas in mathematics. It's very convenient for all students in high school or university and engineers to look for any easy or complicated formulas. It includes:</p> <ul style="list-style-type: none"> - Geometry - Algebra - Trigonometry - Equations - Analytic Geometry - Differentiation - Integration - Matrix - Probability and statistics - Units Conversion. - Math Tricks. 	<p>https://play.google.com/store/apps/details?id=com.nsc.mathformulas.lite&hl=en</p>	
<p>Math by YourTeacher.com</p>	<p>Get the exact math help you need with your own personal math teacher!</p> <p>Browse or search YourTeacher's complete library of over 50 courses for elementary, middle, and high school math; community college and college math; and standardized test prep.</p> <p>Each course contains over 100 lessons, and each lesson features video examples, interactive practice, multiple-choice self-tests, a worksheet of extra problems, and more!</p> <p>PLEASE NOTE that your first 5 lessons are FREE! You will then be asked if you would like to purchase any of our courses for just \$9.99!</p> <p>Each course offers an entire year's worth of math tutoring and practice!</p>		<p>https://itunes.apple.com/us/app/math/id469234810?mt=8</p>
<p>Virtual Nerd Mobile Math</p>	<p>Pearson is proud to introduce Virtual Nerd Mobile Math. This amazing math app provides on-the-go access to Virtual Nerd's extensive video library. Interactive tutorial videos review fundamental math concepts in middle school and high school. Whether you're a student, teacher, or parent, use Virtual Nerd Mobile Math to:</p> <p>*See clear and approachable explanations delivered by Virtual Nerd's on-screen instructors.</p> <p>*Navigate by topic or your Math Standards</p>		<p>https://itunes.apple.com/us/app/virtual-nerd-mobile-math/id843886561?mt=8</p>