DCL DISCOVERY TO GO!
Cool Science and Math Stuff to Check Out

DCL DeWitt Community Library
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Discover Connect Learn

APP LOGO	TITLE	AUTHOR	AGE RATING	DESCRIPTION
ANIMALS				
	BATS! FURRY FLIERS OF THE NIGHT	Bookerella	4+	Bats! lets kids aged six to 11 search jungles, deserts, woods and other vivid 3-D environments; flap their “wings” and fly like a bat; “see” how sound waves help bats find food; and much more.
	BRIAN COX'S WONDERS OF LIFE	HarperCollins Publishers Ltd.	4+	From the vast networks of subterranean freshwater caverns of the Yucatan peninsula to the Great White Sharks haunting the South Neptune Islands, from the Hermit Crabs of Christmas Island to the Red Kangaroo of Western Australia, this app will help you uncover the secrets of life in the most unexpected locations and in the most stunning detail.
	KID SCIENCE: FROG DISSECTION	Selectsoft	9+ for Infrequent/Mild Mature/Suggestive Themes	Kid Science: Frog Dissection offers a great way to study how a frog’s body works. Video and narration capture the dissection experience without all the smell and mess. You can also follow the step-by-step video instructions to perform your own hands-on frog dissection.
	ULTIMATE DINOPEDIA: COMPLETE DINOSAUR REFERENCE	National Geographic Society	4+	Based on the award-winning NATIONAL GEOGRAPHIC KIDS ULTIMATE DINOPEDIA: The Most Complete Dinosaur Reference Ever, this app goes beyond any dinosaur encyclopedia you’ve ever seen. Just what makes this dino app so extreme? MORE THAN 700 DINOSAURS! ASTONISHING ARTWORK! THE LATEST DISCOVERIES! AMAZING INTERACTIVES AND VIDEO!

APP LOGO	TITLE	AUTHOR	AGE RATING	DESCRIPTION
ASTRONOMY				
	BUZZ ALDRIN PORTAL TO SCIENCE AND SPACE	The App Company	4+	Buzz Aldrin's App brings together a huge wealth of new, important and historical information about science and space exploration.
	POCKET UNIVERSE: VIRTUAL SKY ASTRONOMY	John Kennedy	4+	Pocket Universe is an easy-to-use app that will help you learn the names of constellations, bright stars, planets and more. You can literally hold up your iPhone, iPad or iPod Touch in front of you, and the app will use the built-in compass to display the same view of the sky you see - but one that's complete with names and information.
	SOLAR WALK - SOLAR SYSTEM PLANETS, ORBITS, AND MOONS	Vito Technology Inc.	4+	This 3D solar system model lets you navigate between planets, see their positions on a specific date, explore how they move and why. You will see the entire Milky Way galaxy from a far and zoom in to study all the planets and satellites in close-up, learn their trajectories, inner structures, history of their exploration, and geography.
	STAR WALK KIDS - EXPLORE SPACE & PLANETS	Vito Technology Inc.	4+	Is space a ginormous and confusing mess of everything? A little bit, yes. Navigate through wonders of the night sky with Star Walk Kids and find out all there is to know about planets, stars, and constellations in a child friendly way.

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ASTRONOMY Cont.				
	STEPHEN HAWKING'S SNAPSHOTS OF THE UNIVERSE	Random House LLC	9+ for Infrequent/Mild Cartoon or Fantasy Violence	Based on the work and writings of Stephen Hawking, this app teaches both adults and students the basic theories that govern our lives on Earth as well as the movement of the stars and planets. You can play and learn at the same time in each of the ten experiments included in Snapshots of the Universe.
CHEMISTRY				
	ONSCREENDNA MODEL	OnScreen Science, Inc.	4+	Tested with iOS 8 & 64-bit processor. This is an interactive, color-coded, 3D model with animations and background material for thoroughly (and enjoyably) learning the essential details of DNA's structure and chemical components. Scientifically accurate.
	THE ELEMENTS BY THEODORE GRAY	Touchpress Limited	4+	You start off at a living periodic table where every element is shown with a smoothly rotating sample. To read about tin, tap the tin soldier. To read about gold, tap the gold nugget. Immediately you see the sample filling nearly the entire screen, photographed to razor sharpness and rotating around a complete circle in front of your eyes. Beside that is a column of facts and figures, each of which can be tapped to bring up rich detail and current information through the embedded Wolfram|Alpha computational knowledge engine.
	THE ELEMENTS IN ACTION BY THEODORE GRAY	Touchpress Limited	4+	The Elements in Action shows you one definitive demonstration for (almost) every element, ranging from the bizarre to the sublime, all assembled in one place for you to view in the comfort and safety of your iPad, with very little danger of death by fire, dismemberment, or poisoning.

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CHEMISTRY Cont.				
	MOLECULES BY THEODORE GRAY	Touchpress Limited	12+ for Infrequent/Mild Medical/Treatment Information	Molecules by Theodore Gray is the extraordinary sequel to The Elements, the bestselling book and app. It continues the story of the elements to show how they are assembled into the rich diversity of compounds, chemicals, molecules, rocks, and stuff that make up our world.
	NOVA ELEMENTS	PBS	4+	Did you ever wonder why the periodic table is shaped the way it is, what gives each element its own unique set of properties, or even how elements combine to make everyday objects such as a cup of coffee? With NOVA Elements, explore an interactive periodic table, play a game hosted by David Pogue, or watch the two-hour NOVA program, Hunting the Elements.
COMPUTER ART				
	COMIC LIFE 3	plasq LLC	4+	Packed with fonts, templates, balloons, captions, and lettering art, Comic Life is a fun, powerful and easy-to-use app that makes creating comics easier than ever. And now you can build your comics anywhere you like!
	DISNEY ANIMATED	Disney	4+	Throughout Disney Animated, explore pages packed with interactive images and multi-layer animated clips. Animate authentic Disney 3D character models, and control a Disney visual effects simulation. Browse a rich timeline of all 53 Disney animated feature films, and more.

APP LOGO	TITLE	AUTHOR	AGE RATING	DESCRIPTION
COMPUTER ART Cont.				
	IMOVIE	Apple	4+	With a streamlined design and intuitive Multi-Touch gestures, iMovie lets you enjoy your videos and tell stories like never before. Browse your video library, share favorite moments, create beautiful movies, and watch them on all your devices in iMovie Theater.
EARTH SCIENCE				
	AL GORE - OUR CHOICE	Push Pop Press, Inc.	4+	In this interactive app, Al Gore surveys the causes of global warming and presents groundbreaking insights and solutions already under study and underway that can help stop the unfolding disaster of global warming.
	EARTH SCIENCE THROUGH PHOTOGRAPHY	Alex D. Jones	4+	This app is designed for children who are 8-11 years old, elementary science teachers, and anyone interested in photography. This is truly an educational application. The app contains photographs that pertain to earth science on an elementary level.
	ECOSYSTEMS HD	Sprout Labs, LLC	4+	Ecosystems HD is a visually engaging and fun exploration of the major biomes of the Earth.

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EARTH SCIENCE Cont.				
	RECYCLE HD	Sprout Labs, LLC	4+	Recycle HD explains the why and how of the 3Rs (Reduce, Reuse, Recycle) in a fun and interactive way.
	WATER CYCLE HD	Sprout Labs, LLC	4+	Photos and videos describe the various stages of the water cycle and its impact to life on Earth. The Did You Know section has "WOW" facts related to each stage. The Read To Me button turns on text narration.
ELECTRICITY				
	EXPLORIMENTS: ELECTRICITY - CURRENT AND CHARGE	IL&FS Education and Technology Services Ltd.	4+	This Exploriments app provides an interactive environment to explore the concepts of current and charge, understand division of current in parallel circuits, understand current measurement using ammeter, gain familiarity with several types of circuits, and practice your skills at taking measurements. Activity-based quizzes help you to reinforce concepts and build confidence.
	EXPLORIMENTS: ELECTRICITY - OHM'S LAW	IL&FS Education and Technology Services Ltd.	4+	Learn more about Ohm's Law using only your fingertips. Explore a variety of virtual circuits, complete with ammeters, voltmeters and an array of electrical devices. Calculate the resistance of devices in series, parallel and combination circuits and gain insights into the relationship of resistance with current and voltage, as defined by Ohm's Law.

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ELECTRICITY Cont.				
	EXPLORIMENTS: ELECTRICITY - SIMPLE ELECTRICAL CIRCUITS	IL&FS Education and Technology Services Ltd.	4+	Ideally suited for elementary and middle school (though not limited to it), the app provides a complete toolkit for understanding and designing circuit arrangements such as series, parallel and combination using batteries, wires, bulbs and a host of fun electrical toys.
	EXPLORIMENTS: ELECTRICITY - VOLTAGE MEASUREMENT	IL&FS Education and Technology Services Ltd.	4+	This Exploriment app presents an environment in which you can learn about potential difference, voltage and voltmeter. Compare characteristics of voltage in series and parallel circuits. Use a voltmeter to measure potential difference across one and more devices in a circuit. Understand and verify the cumulative nature of voltage drops in case of devices in series and explore voltage measurement with reference to a base voltage.
ENGINEERING				
	MONSTER PHYSICS	Freecloud Design, Inc.	4+	Monster Physics is a unique building app that lets you play with physics! Build and operate your own car, crane, rocket ship, plane, helicopter, tank and more!
	SIMPLEPHYSICS	Jundroo, LLC	9+ for Infrequent/Mild Cartoon or Fantasy Violence	SimplePhysics lets you design complex structures for everything from tree houses to ferris wheels and then simulates your design with a sophisticated physics engine.

APP LOGO	TITLE	AUTHOR	AGE RATING	DESCRIPTION
ENGINEERING Cont.				
	TINKERBOX HD	Autodesk Inc.	4+	Take the tools in your hands to explore your creativity and imagination with Invent mode. Build outrageous machines, share them with your friends, or download popular inventions online at http://www.tinkerboxnews.com. Stretch your brain through the devious Puzzle mode. Get immersed in physics-based puzzles and mechanical concepts, where your only hope for success is your creative problem solving.
HISTORY -- United States				
	CIVIL WAR BY KIDS DISCOVER	KIDS DISCOVER	4+	Kids will learn all about the Civil War as they discover the difference of opinion over slavery and states' rights, roam the battlefields with the soldiers, follow women's war activities on the home front, and meet the most famous figures of the period
HUMAN BODY				
	3D BRAIN	Cold Spring Harbor Laboratory	12+ for Infrequent/Mild Medical/Treatment Information	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. Each detailed structure comes with information on functions, disorders, brain damage, case studies, and links to modern research.
	THE AMAZING DIGESTIVE JOURNEY	ISYGAMES SC	4+	The purpose of this app is for kids to learn about the organs involved in the digestive process and how they work together, all through play. Starting in the mouth, kids solve puzzles to make progress down through the esophagus, stomach, liver, pancreas, and the small and large intestines… At the end there is a fun surprise waiting for them.

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HUMAN BODY Cont.				
	BRAIN AND NERVOUS SYSTEM PRO III	3D4Medical.com, LLC	4+	Brain and Nervous System Pro III now features multiple orthogonal slices on the transverse, sagittal and coronal planes, meaning you can 'slice' through the brain effortlessly to reveal the inner anatomy of the brain, from top to bottom, left to right and front to back. The app is unsurpassed in its level of detail and interactivity. Now with a simple swipe of your finger, you can explore neuroanatomy from a basic to advanced level.
	D. BONES	ISYGAMES SC	4+	D. Bones is an educational app designed to help kids reinforce and practice material learned at school about the human skeleton
	HEART & LUNGS LAB	ISYGAMES SC	4+	Heart and Lungs Lab embraces different levels of complexity so that it can be enjoyed by users of all ages. Kids as young as 5 can play at starting up the heart's "pump," while students aged up to 14 can use the "Remember" and "Did you know?" tabs to develop a better understanding of the cardiovascular and respiratory systems, or try their hand at practice questions when preparing for a real-life test.
	HEART PRO III	3D4Medical.com, LLC	4+	Heart Pro III's primary use is as a learning tool but can also be used as a fast and innovative reference tool by utilizing the index function that allows the user to select an item and the app will automatically zoom in and identify it.

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HUMAN BODY Cont.				
	MUSCLE SYSTEM PRO III	3D4Medical.com, LLC	4+	Muscle System Pro III's primary use is as a learning tool but it can also be used as a fast and innovative reference tool by utilizing the index function that allows the user to select a muscle and the app will automatically zoom in and identify it.
	MUSCLES FOR KIDS	ISYGAMES SC	4+	Find out how the main muscles in your body work, and interactively learn fascinating facts about the musculoskeletal system. Muscles for Kids is aimed at children aged 7 to 14, and can be used at home and in the classroom.
	SKELETON SYSTEM PRO III	3D4Medical.com, LLC	4+	The Skeleton System Pro III - includes the most in depth 3D skeleton ever developed, the ability to rotate, cut and get superior/inferior views, all with the simple stroke of the finger.
MATHEMATICS				
	DRAGONBOX ALGEBRA 5+	WeWantToKnow AS	4+	DragonBox Algebra 5+ Is perfect for giving young children a head start in mathematics and algebra. Children as young as five can easily begin to grasp the basic processes involved in solving linear equations without even realizing that they are learning. The game is intuitive, engaging and fun, allowing anyone to learn the basics of algebra at his or her own pace.

APP LOGO	TITLE	AUTHOR	AGE RATING	DESCRIPTION
MATHEMATICS Cont.				
	DRAGONBOX ALGEBRA 12+	WeWantToKnow AS	4+	DragonBox Algebra 12+ is a must-have tool for students so they can earn better grades and gain confidence in algebra and mathematics. It is based on the award winning game DragonBox Algebra 5+ but covers more advanced topics in mathematics and algebra.
	MATHALICIOUS - IMPOSSIBLE MATH CHALLENGES	Iqbal Khan	4+	You are presented with simple math questions using basic arithmetic operations. You select whether the answer is correct or not. The catch is you are given a very limited time.
	OPERATION MATH	Spinlight Studio	4+	Defeat Dr. Odd and earn the latest spy gear in the award-winning game that transforms math drills into a global learning adventure. From the streets of Paris to the pyramids of Egypt, Operation Math includes more than 100 timed missions that help players learn addition, subtraction, multiplication and division.
	OPERATION MATH CODE SQUAD	Spinlight Studio	4+	Take the action to a whole new level in the fun, multiplayer math game based on Operation Math. With four virtual keypads, Operation Math Code Squad lets multiple players work together to solve equations and disarm Dr. Odd's devious devices in a race against the clock. Think fast and score big in the awesome game of tick-tock tech guaranteed to keep you on the edge of your iPad.

APP LOGO	TITLE	AUTHOR	AGE RATING	DESCRIPTION
PHYSICS				
	EXPLORIMENTS: FLUIDS - ARCHIMEDES PRINCIPLE, BUOYANCY	IL&FS Education and Technology Services Ltd.	4+	This Exploriments app for verifying Archimedes Principle provides a very comprehensive, interactive and visual environment for exploring concepts such as volume displacement, buoyant force, apparent weight and flotation, which form the basis of the Archimedes Principle. The app allows you to choose between solids of varying densities, shapes and structure (hollow or solid) as well as customizable fluid density.
	EXPLORIMENTS: LIGHT - OPTICS RAY DIAGRAMS	IL&FS Education and Technology Services Ltd.	4+	This Exploriments app has five activities that use highly interactive ray diagrams to introduce you to the basic concepts of optics. The app lets you explore reflective and refractive devices that are both converging and diverging in nature - the convex lens, concave mirror, convex mirror, concave lens and plane mirror.
	EXPLORIMENTS: LINEAR MOTION - AREA UNDER SPEED AND VELOCITY	IL&FS Education and Technology Services Ltd.	4+	This Exploriments Motion App lets you explore how distance traveled by a body is equal to the area under the speed-time curve and displacement is equal to area under the velocity-time curve. You can analyze different types of speed-time curves and velocity-time curves and understand how to determine the distance and displacement.
	EXPLORIMENTS: LINEAR MOTION - MOTION GRAPHS	IL&FS Education and Technology Services Ltd.	4+	This Exploriments Motion App introduces different motion graphs, including distance-time, speed-time, displacement-time and velocity-time graphs. The app lets you explore different characteristics of motion such as constant speed versus changing speed, average velocity, relation between speed-time and distance-time graphs and more.

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PHYSICS Cont.				
	EXPLORIMENTS: VECTORS - ADDITION AND RESOLUTION	IL&FS Education and Technology Services Ltd.	4+	The Exploriments Vector app provides an interactive and visual environment to explore vectors. Interactively change magnitude and direction of vectors and see how it affects the resultant vector. Learn about resolution of vectors and explore different techniques of adding two or more vectors.
	EXPLORIMENTS: WEIGHT, MASS AND FORCE OF GRAVITY	IL&FS Education and Technology Services Ltd.	4+	This highly interactive Exploriment App lets you explore the effect of gravity on weight and mass on different planets. You can also explore the effect of altitude on weight and mass and even of depth below the Earth's surface.
PROGRAMMING				
	LIGHTBOT - PROGRAMMING PUZZLES	Lightbot Inc.	4+	Lightbot is a programming puzzle game-a game whose game mechanics require using programming logic to solve levels. Simply guiding a robot to light up tiles and solve levels using commands, Lightbot cultivates a real understanding of procedures, loops, and conditionals for players.
	LIGHTBOT JR 4+ CODING PUZZLES	Lightbot Inc.	4+	Lightbot Junior is specifically designed for ages 4-8, and is an easier version of the popular Lightbot: featuring a gentler learning curve and not-too-complex puzzles. You can play as Boybot or Girlbot as you solve puzzles that use game mechanics that are based on Computer Science ideas; Lightbot Junior lets players gain a practical understanding of basic concepts like writing instructions, debugging problems, simple procedures and loops, just by guiding a robot with commands to light up tiles and solve levels.

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PROGRAMMING Cont.				
	HOPSCOTCH SCHOOL EDITION--PROGRAMMING	Hopscotch Technologies	4+	Hopscotch is programming designed for everyone. Kids can use simple, intuitive building blocks to create games, animations and apps.
	SCRATCH JR	Scratch Foundation	4+	By snapping together graphical programming blocks, children can make characters move, jump, dance, and sing. In the process, children learn to solve problems, design projects, and express themselves creatively on the computer.
	TYNKER	Tynker	4+	Create and share awesome games and apps quickly using the same visual programming language introduced in the puzzles. Program native behaviors, experiment with physics, program connected toys and design your own animated characters.
READING				
	NEWS-O-MATIC FOR SCHOOL, 2015-16, NONFICTION READING	Press4Kids	4+	This nonfiction reading comprehension app publishes five news stories each weekday! The stories range in length and difficulty to create opportunities for differentiated instruction. Readers learn what happened on this date in history through an educational game and write or draw to Editor-in-Chief Russ in the News Room. Each edition gives you access to a Teacher's Guide.