App based Physics

Preparing for the Future...TODAY

Compilation of ideas from Michael Strange's presentation in Portland, Pat Callahan and Dave McCachren's preparation for March 2014 workshop at Misericordia Univ. in PA and participants of Misericordia workshop.

Apps to Assist with Classroom Presentations

www.reflectorapp.com
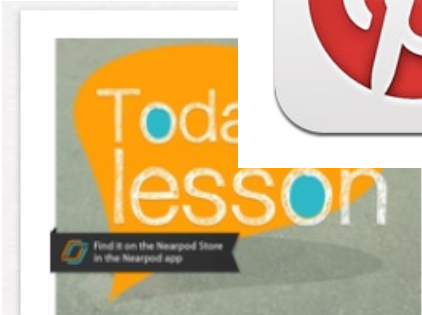

$12-Single

nearpod

An all-in-one solution for the synchronized use of iPads in the classroom.

Make your lessons more engaging through interactive multimedia presentations.

teacher's view

students' view

Spice up your PPT's

Today's lesson

This NPP can be used whenever you want during a lesson :) Test your students' knowledge on yhe fly! Find

Why Can't We See Evidence of Alien Life?

This presentation is based on a TedEd video that explores the famous Fermi Paradox. Given the vast number of

NEWTON'S 3 LAWS OF MOTION

HOW NEWTON'S 3 HELP YOU RIDE YOUR BIKE.

In this lesson students will discover how Newton's 3 laws of motion help them ride their bikes. Find this and

Logarithms, explained

In this lesson, students will learn what logarithms are and why they are useful, and the basics of mathematical

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ShowMe Interactive Whiteboard
Learnbat, Inc.
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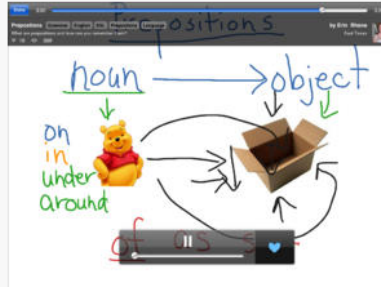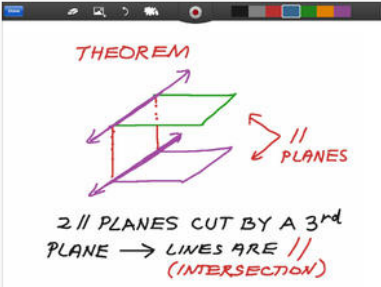
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Turn your iPad into your personal interactive whiteboard!

ShowMe allows you to record voice-over whiteboard tutorials and share them online. It's an amazingly simple app that anyone can use, no matter how young or old!
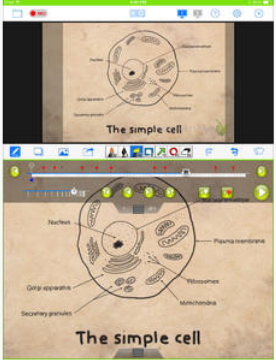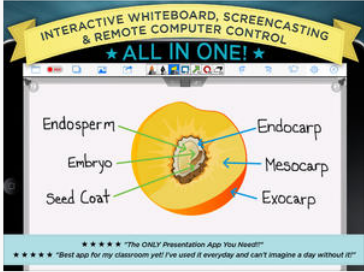
... more

⁺$2.99

Cancel   iPad Only ▾   Any Price ▾   All Categories ▾   By Relevance ▾   🔍 doceri ⊗

Doceri Interactive Whiteboard
SP Controls, Inc.
★★★★⯪ (20)   FREE

INTERACTIVE WHITEBOARD, SCREENCASTING
& REMOTE COMPUTER CONTROL

Doceri Interactive Whiteboard [4+]   ⬆
SP Controls, Inc. ›
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| Details | Reviews | Related |

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& REMOTE COMPUTER CONTROL
★ ALL IN ONE! ★

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★ ★ ★ ★ ★ "The ONLY Presentation App You Need!!"
★ ★ ★ ★ ★ "Best app for my classroom yet! I've used it everyday and can't imagine a day without it!"
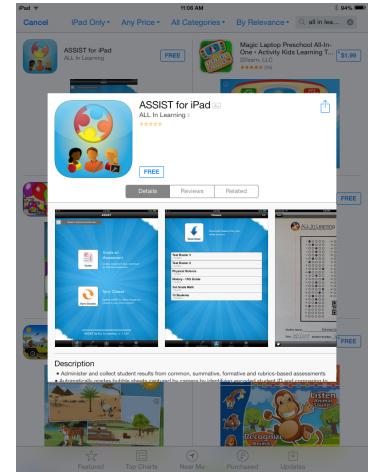
The simple cell

The simple cell

Description

Combining screencasting, desktop control, and an interactive whiteboard in one app, you'll never have to turn your back to the class or audience again. Create a lesson or presentation, insert images, save and edit your

Apps to Assist with Teacher/Student Tasks

ASSIST for iPad
ALL In Learning

FREE

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22learn, LLC
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$1.99

ASSIST for iPad 4+

ALL In Learning ›

★★★★★

FREE

Details   Reviews   Related

Description

• Administer and collect student results from common, summative, formative and rubrics-based assessments
• Automatically grades bubble sheets captured by camera by identifying encoded student ID and comparing to

Assist Grading

- Five random answers

- Instant Grades

- Instant Feedback

- Practice

Teachers.io

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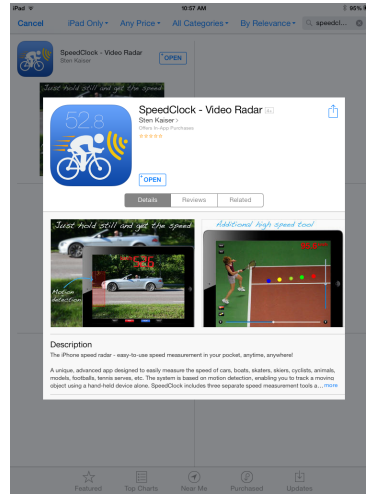connect with teachers.

learn more ➤

Sign in Sign up

Socrative

Engaging Quiz with Instant Feedback
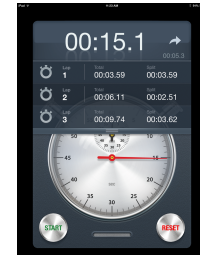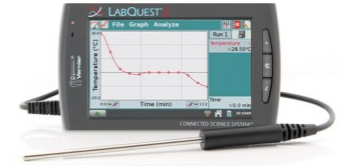
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GoodNotes 4 - Notes & PDF
Time Base Technology Limited
★★★★★ (111)   + $5.99

Documents Unlimited Suite for
iPad - Editor for OpenOffice...
Appsverse Inc.
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GoodNotes 4 - Notes & PDF [4+]   ⬆
Time Base Technology Limited ›
★★★★⯪ (111)

+ $5.99

Details   Reviews   Related

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Description

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Data Acquisition and Analysis
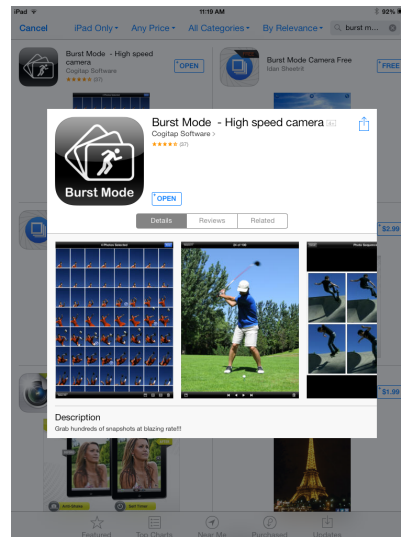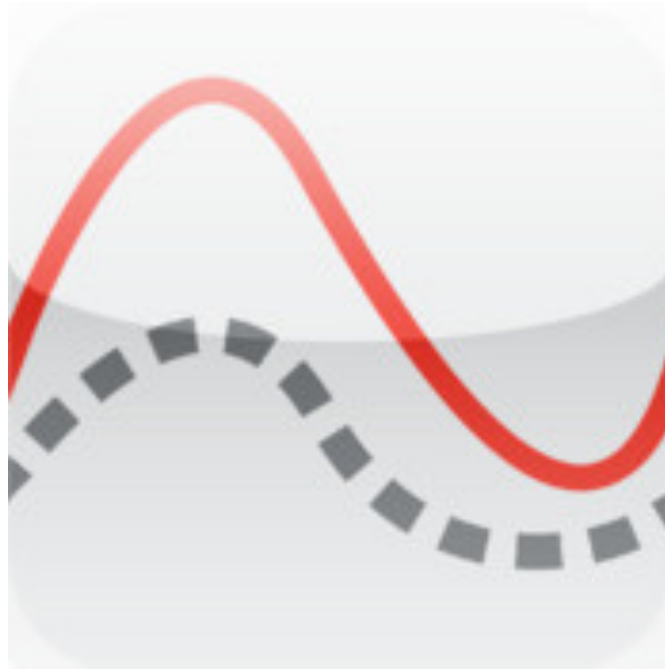
Vernier's Graphical Analysis

Sparkvue

Find acceleration...and more

Vernier Video Physics

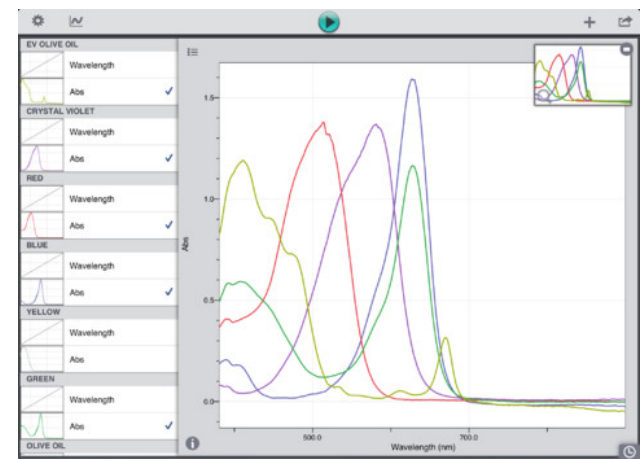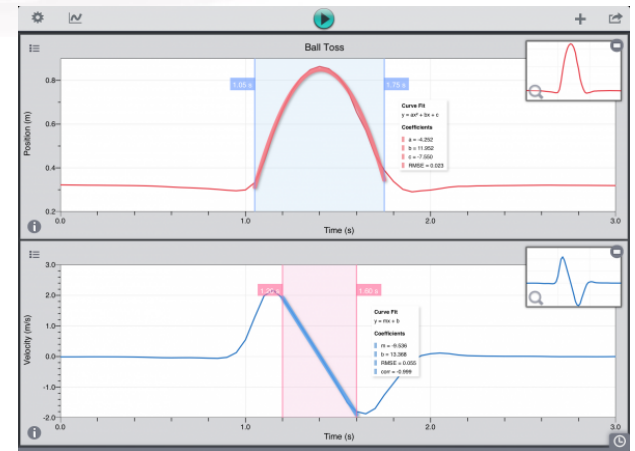Plotting Linear/Projectile Motion
Not Free

- Display data from Labquest2 on iPad anywhere within wifi

- View multiple graphs of same data

- View multiple variables within same graph

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SpeedClock - Video Radar
Sten Kaiser
⁺OPEN

Just hold still and get the speed

52.8

SpeedClock - Video Radar [4+]
Sten Kaiser ›
Offers In-App Purchases
★★★★★

⁺OPEN

| Details | Reviews | Related |

Just hold still and get the speed
Motion detection
52.6

Additional high speed tool
95.6 km/h

Description

The iPhone speed radar - easy-to-use speed measurement in your pocket, anytime, anywhere!

A unique, advanced app designed to easily measure the speed of cars, boats, skaters, skiers, cyclists, animals, models, footballs, tennis serves, etc. The system is based on motion detection, enabling you to track a moving object using a hand-held device alone. SpeedClock includes three separate speed measurement tools a... more

Featured · Top Charts · Near Me · Purchased · Updates

Burst Mode - High speed camera
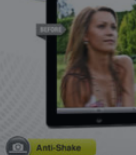Cogitap Software
★★★★☆ (37)　　　　　⁺OPEN

Burst Mode Camera Free
Idan Sheetrit　　　　　　⁺FREE

Burst Mode - High speed camera [4+]

Cogitap Software >

★★★★☆ (37)

⁺OPEN

| Details | Reviews | Related |

⁺$2.99

⁺$1.99

Description

Grab hundreds of snapshots at blazing rate!!!

Anti-Shake　　Self Timer

Stopwatch+

ProTuner - Chromatic Tuner

24/7 apps ›

★★★☆☆ (23)

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Description

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N-Track Tuner

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AccelMeter

Record ⃝

Accelerometer (g)

X: 0.23
Y: 0.39
Z: 0.81

Gyroscope (rad/s)

X: -0.25
Y: 0.07
Z: -0.06

Magnetometer (µT)

X: -1519.48
Y: -4139.01
Z: -1488.47

Roll: -15°

Pitch: 22°

Yaw: 14°

+Y
-Z
-X
+Z
+X
-Y
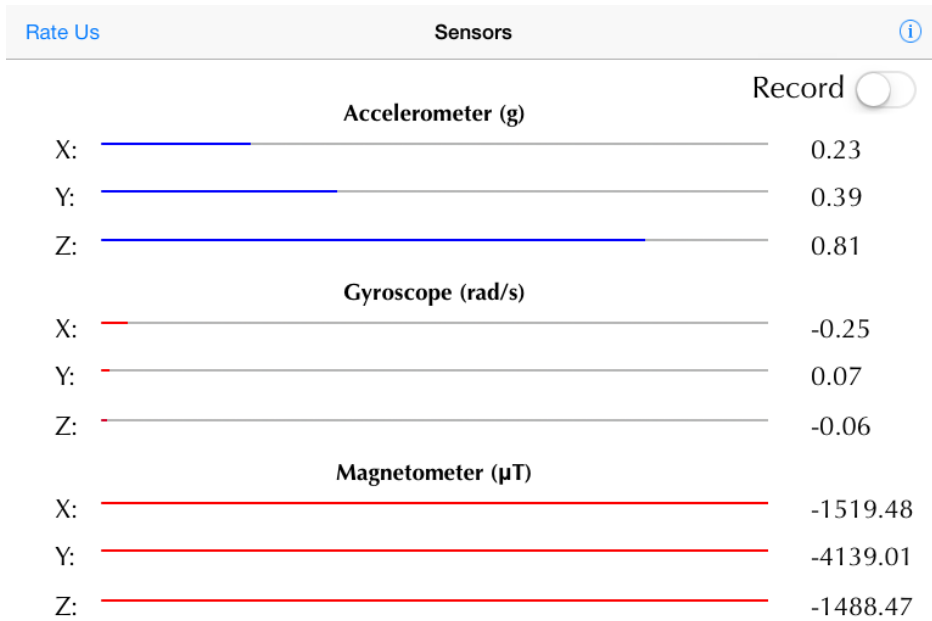
Data Collection

App uses sensors built into device
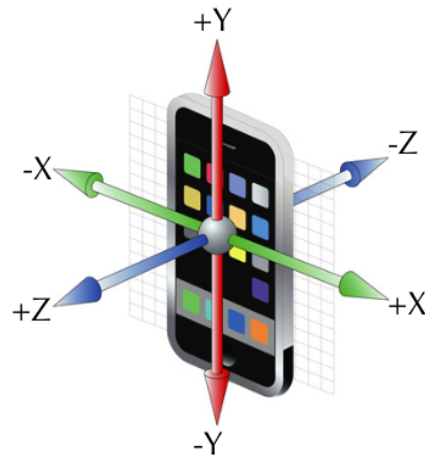
Cancel   iPad Only ▾   Any Price ▾   All Categories ▾   By Relevance ▾   🔍 clinometer ⊗

Clinometer + slope finder +
bubble level (3 in 1)
Peter Breitling
★★★★½ (8)
⁺$0.99

U-Clinometer
Unirac, Inc.
⁺FREE

Clinometer + slope finder + bubble level (3 in 1) [4+] ⬆

Peter Breitling ›

Offers In-App Purchases

★★★★½ (8)

⁺$0.99

Details   Reviews   Related

Description

This professional tool called Clinometer is the most precise (all you can get with some calculations) slope measurement tool for the iPhone, iPod Touch and iPad using all sides of the device plus the camera. It can be

slope to the
target point

Featured   Top Charts   Near Me   Purchased   Updates

Scope Pro

Oscilloscope made easy
Not Free $0.99 at last check

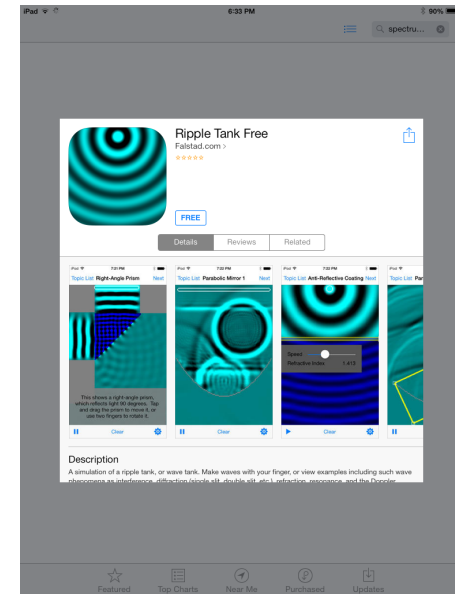# Spectra Snapp

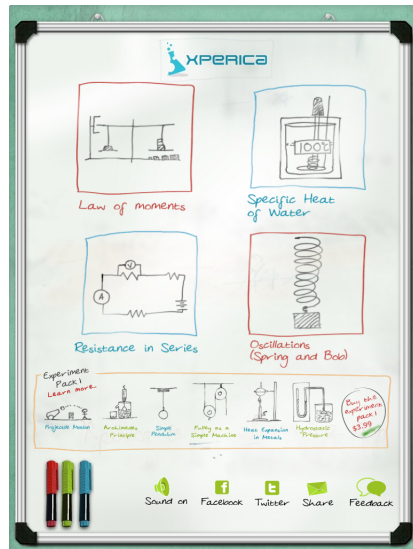Quick Spectrums made easy

Spectrum Analysis

Hand held spectroscope
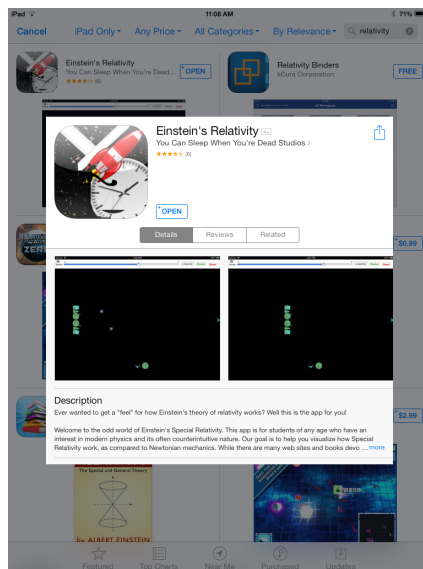(Not Free) $1.99 at last check

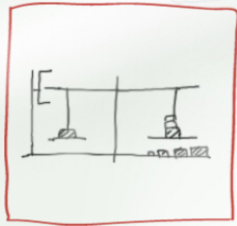# Flashlight

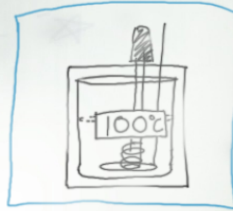With strobe light (iPhone)

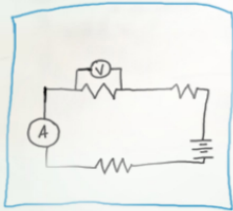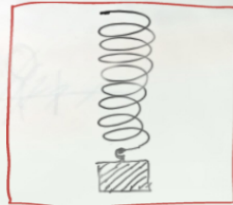# Simulations

XPERICA

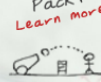Law of moments

Specific Heat of Water

Resistance in Series

Oscillations
(Spring and Bob)

Experiment Pack!
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Projectile Motion

Archimedes Principle

Simple Pendulum

Pulley as a Simple Machine

Heat Expansion in Metals

Hydrostatic Pressure

Buy the experiment pack!
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spectru... ✕

Ripple Tank Free

Falstad.com >

★★★★★

FREE

| Details | Reviews | Related |

iPod 🛜 7:21 PM 🔋
Topic List **Right-Angle Prism** Next

This shows a right-angle prism, which reflects light 90 degrees. Tap and drag the prism to move it, or use two fingers to rotate it.

⏸ Clear ⚙️

iPod 🛜 7:22 PM 🔋
Topic List **Parabolic Mirror 1** Next

⏸ Clear ⚙️

iPod 🛜 7:22 PM 🔋
Topic List **Anti-Reflective Coating** Next

Speed
Refractive Index   1.413

▶ Clear ⚙️

iPod 🛜
Topic List Par
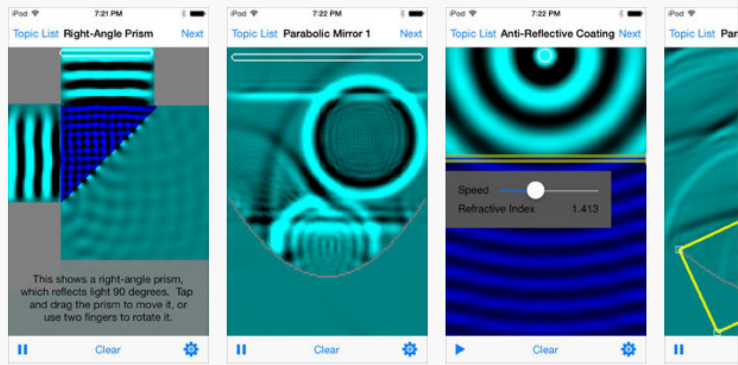
⏸

Description

A simulation of a ripple tank, or wave tank. Make waves with your finger, or view examples including such wave phenomena as interference, diffraction (single slit, double slit, etc.), refraction, resonance, and the Doppler

⭐ Featured   📋 Top Charts   🧭 Near Me   Ⓟ Purchased   📥 Updates

Cancel   iPad Only ▾   Any Price ▾   All Categories ▾   By Relevance ▾   🔍 relativity ⊗

Einstein's Relativity
You Can Sleep When You're Dead...
★★★½☆ (6)
⁺OPEN

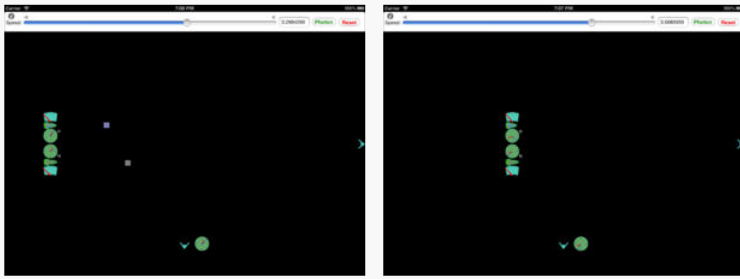**Relativity Binders**
kCura Corporation
FREE

Einstein's Relativity [4+]

You Can Sleep When You're Dead Studios ›

★★★½☆ (6)

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Details   Reviews   Related

$0.99

$2.99
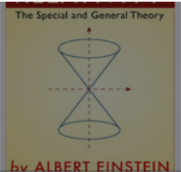
Description

Ever wanted to get a "feel" for how Einstein's theory of relativity works? Well this is the app for you!

Welcome to the odd world of Einstein's Special Relativity. This app is for students of any age who have an interest in modern physics and its often counterintuitive nature. Our goal is to help you visualize how Special Relativity work, as compared to Newtonian mechanics. While there are many web sites and books devo ... more

by ALBERT EINSTEIN

⭐ Featured   📋 Top Charts   📍 Near Me   Ⓟ Purchased   ⬇ Updates

Topical Curricular Material
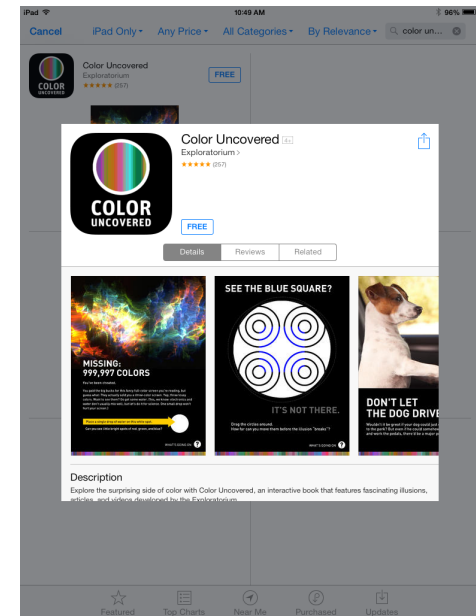
Sound Uncovered
Exploratorium
★★★★★ (45)

FREE

FIND THE HIGHEST NOTE

Sound Uncovered [4+]

Exploratorium ›
★★★★★ (45)

FREE

Details   Reviews   Related

FIND THE HIGHEST NOTE

Is there one? Try touching the keys in a clockwise direction.
Be sure to go all the way around at least twice.
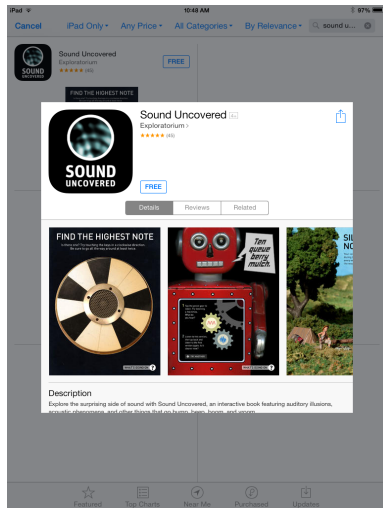
Ten queue berry mulch.

1 Tap the green gear to listen. Try listening a few times. What do you hear?

2 Listen to this version, then go back and listen to the first version again. Is it clearer now?

+ TRY ANOTHER

WHAT'S GOING ON ?

WHAT'S GOING ON ?

SIL...
NO...
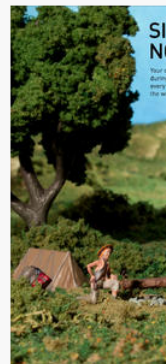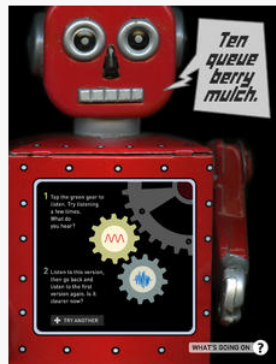
Description

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.

Cancel   iPad Only ▾   Any Price ▾   All Categories ▾   By Relevance ▾   🔍 color un... ⊗

Color Uncovered
Exploratorium
★★★★★ (257)   FREE

Color Uncovered [4+]
Exploratorium ›
★★★★★ (257)   📤

COLOR
UNCOVERED

FREE

Details   Reviews   Related

**MISSING:
999,997 COLORS**

You've been cheated.

You paid the big bucks for this fancy full-color screen you're reading, but guess what: They actually sold you a three-color screen. Yep, three lousy colors. Want to see them? Go get some water. (Yes, we know electronics and water don't usually mix well, but let's do it for science. One small drop won't hurt your screen.)

Place a single drop of water on this white spot.

Can you see little bright spots of red, green, and blue?

WHAT'S GOING ON ❓

SEE THE BLUE SQUARE?

IT'S NOT THERE.

Drag the circles around.
How far can you move them before the illusion "breaks"?

WHAT'S GOING ON ❓

**DON'T LET
THE DOG DRIVE**

Wouldn't it be great if your dog could just ___ to the park? But even if he could somehow ___ and work the pedals, there'd be a major p___

Description

Explore the surprising side of color with Color Uncovered, an interactive book that features fascinating illusions, articles, and videos developed by the Exploratorium.

⭐ Featured   📋 Top Charts   🧭 Near Me   Ⓟ Purchased   ⬇️ Updates

The PARTICLE ZOO

Quarks

Up Quark

Down Quark

Strange Quark

Charm Quark

Bottom Quark

Top Quark

Leptons

Electron

Quark

Lepton

Boson

Theory

Baryon

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THE INTERACTIVE
PERIODIC TABLE

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elements

with
David Pogue

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DAVID POGUE'S
ESSENTIAL ELEMENTS

WATCH
HUNTING THE
ELEMENTS

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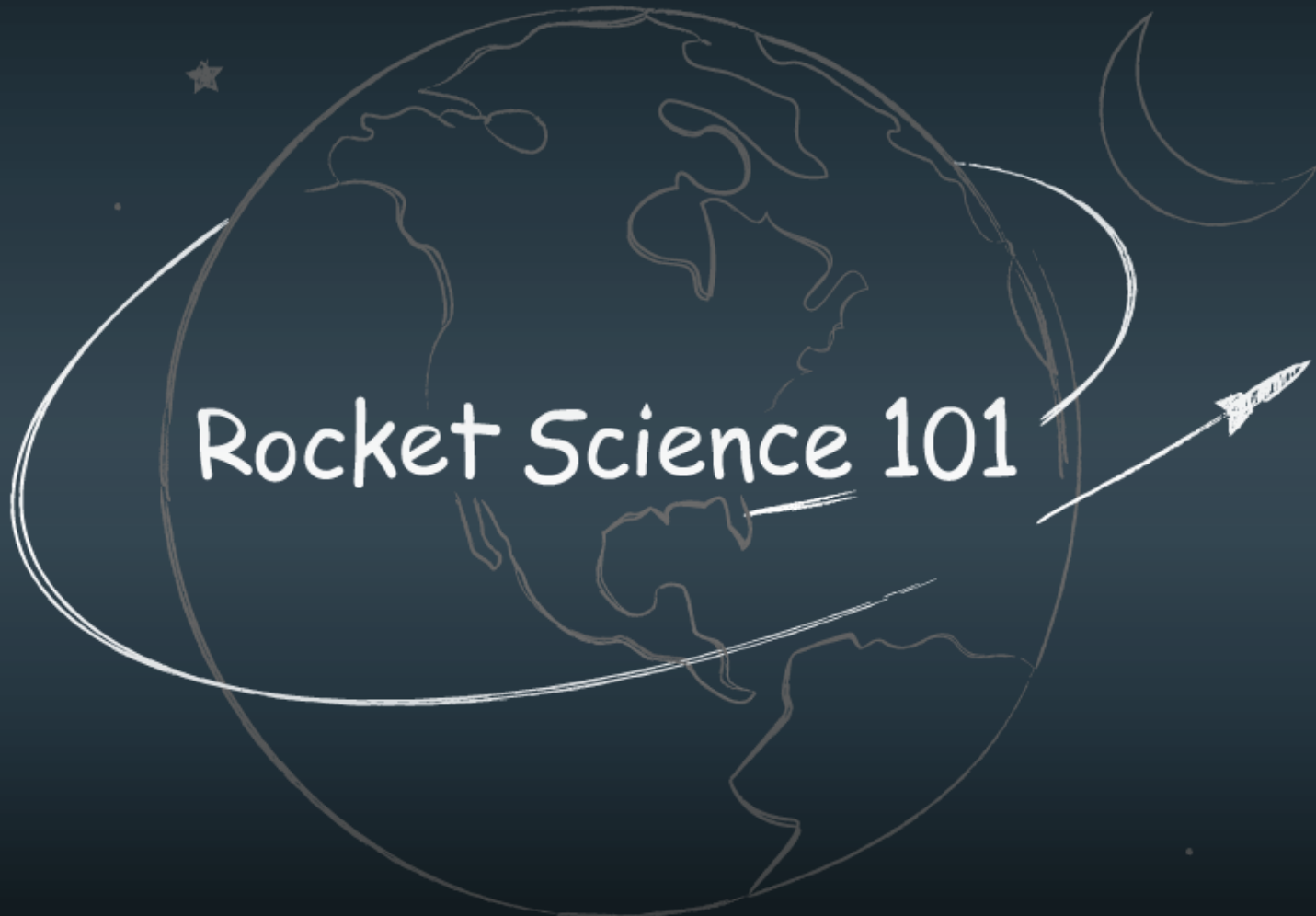
Truss Me!

Scientific Monkey LLC ›

★★★★★ (5)

⬆

$1.99

| Details | Reviews | Related |
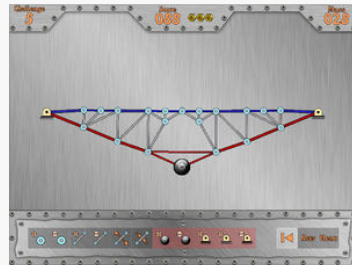
Description

Designed by a true rocket scientist, Truss Me helps students build intuition on how truss structures behave, and to understand how they fail through physics-based simulations.

Truss Me utilizes state of the art simulation techniques used by aerospace, mechanical, and civil engineers to provide the most realistic behavior for your structures. If well designed, your structures will resist as they…more

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CREATURES OF
LIGHT

NATURE'S BIOLUMINESCENCE

The
EXHIBITION

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EVENING

Light on
LAND

A Sparkling
SEA

Altered
LIGHT

The Deep
OCEAN
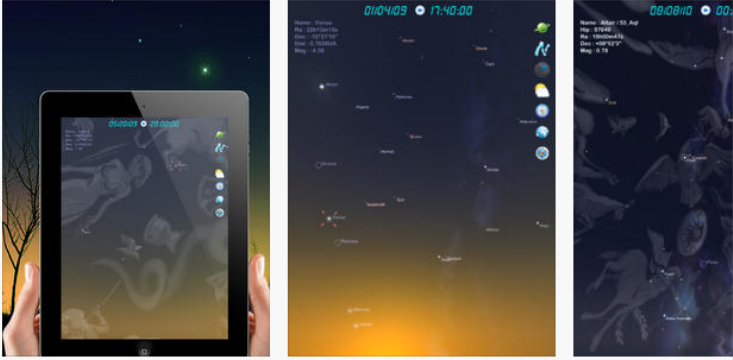
Cancel   iPad Only ▾   Any Price ▾   All Categories ▾   By Relevance ▾   🔍 star rov... ▾

Star Rover HD - Stargazing and Night Sky Watching
EEFan Inc.
★★★★☆ (57)
OPEN

Star View Rover Tracker - Sky Astronomy Guide -Stargazing...
VIMAL BHANVADIYA
⁺$0.99

Star Rover HD - Stargazing and Night Sky Watching [4+]

EEFan Inc. ›
★★★★☆ (57)

OPEN

| Details | Reviews | Related |

⁺$9.99

Description

Do you love the starry night? Do you want to know everything in the sky? Star Rover HD is the fantastic planetarium for your iPad. Just hold up your iPad and Star Rover HD will tell you exactly what you are pointing

Done   **EveryCircuit Free - Android Apps on Google Play**   ↪

Apps

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Editors' Choice

EveryCircuit Free

MuseMaze - January 9, 2014

Education

Install   ⊞ Add to Wishlist

★ ★ ★ ★ ☆ (👤 7,355)

g+1 +7190   Recommend this on Google

Description

All joking aside, this time you will understand how electronic circuits work.
"I stumbled upon some serious gold" - GeekBeat.tv
"This app takes design to a whole new level of interactivity" - Design News

Build any circuit, tap play button, and watch dynamic voltage, current, and charge animations. This gives you insight into circuit operation like no equation does. While simulation is running, adjust circuit parameters with analog knob, and the circuit responds to your actions in real time. You can even generate an arbitrary input signal with your finger!

That's interactivity and innovation you can't find in best SPICE tools for PC like Multisim, LTspice, OrCad or PSpice (trademarks belong to their respective owners).

EveryCircuit is not just an eye candy. Under the hood it packs custom-built simulation engine optimized for interactive mobile use, serious numerical methods, and realistic device models. In short, Ohm's law, Kirchhoff's current and voltage laws, nonlinear semiconductor device equations, and all the good stuff is there.

Growing library of components gives you freedom to design any analog or digital circuit from a simple voltage divider to transistor-level masterpiece.

Schematic editor features automatic wire routing, and minimalistic user interface. No nonsense, less tapping, more productivity.

Read more

Reviews

✎ Write a Review

← → ↻

Cancel   iPad Only ▾   Any Price ▾   All Categories ▾   By Relevance ▾   🔍 chemio ⊗

Chemio - A Student's Chemical Reference
AppBit Software, LLC
★★★★½ (59)   **$1.99**

Chemio Lite - An Interactive Periodic Table
AppBit Software, LLC   **FREE**

Chemio - A Student's Chemical Reference [4+]

AppBit Software, LLC ›

★★★★½ (59)

$1.99

Details	Reviews	Related

Periodic table
easy & informative

Chemio

Al

Description

Interactive periodic table, solubility table, molar mass calculator and the 3D widget for designing electron configuration of atom. The most necessary chemical references for students in the one neat app - it's Chemio!

Chemio is an interactive chemical reference. It provides a set of useful instruments, which allow you to p... more

Cross Platform Apps

McCulley's HTML 5 Physics Resources

- **Lab Simulations**
  - Stopping Distance Lab
  - Projectile Lab
  - Circular Motion Lab
  - Test Track
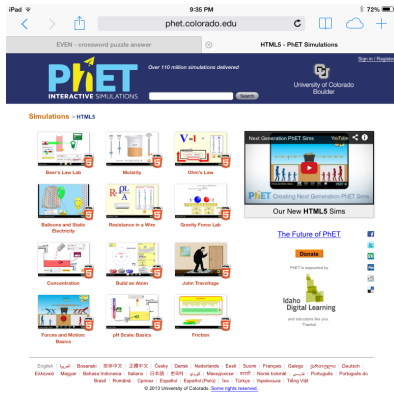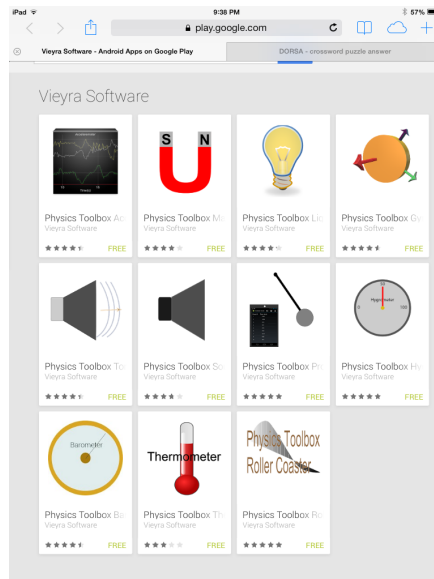 - Energy Transformation
  - Simple Circuit
  - Series Circuit
  - Parallel Circuit
  - RC Circuit
  - Resistance of Wire
- **Tools**
  - Geometry Formulas
  - Magic Triangle
  - Quadratic Equation Solver
  - Periodic Table
  - Visualizing Sines and Cosines
- **Games/Study Aids**
  - Metric Challenge
  - Speed Challenge
  - Torque Challenge
  - Resistor Challenge
  - Color Matching Challenge

- **Randomly Generated Worksheets**
  - Metric Prefixes
  - Unit Conversions
- **Randomly Generated Problems**
  - Force Gravity at Altitude Problem
  - Vertical Motion Problem
  - Freefall at Altitude Problem
  - Stopping Distance Problem
  - Buoyancy Problem
  - Horizontally Fired Projectile
  - Projectiles Fired at an Angle
  - Car on Turn
  - Orbital Motion
  - Torque Problem
  - Electrostatic Force

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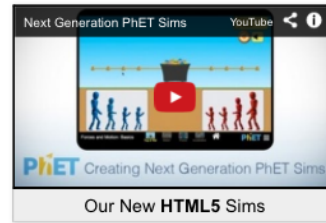

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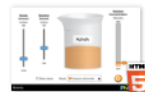
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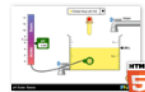

Resistance in a Wire

Gravity Force Lab

Concentration

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John Travoltage

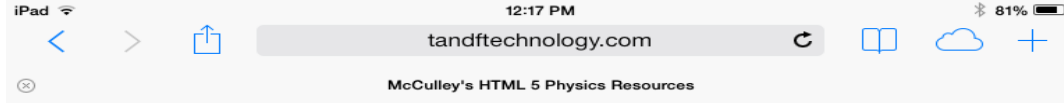Forces and Motion: Basics

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- **Games/Study Aids**
  - Metric Challenge
  - Speed Challenge
  - Torque Challenge
  - Resistor Challenge
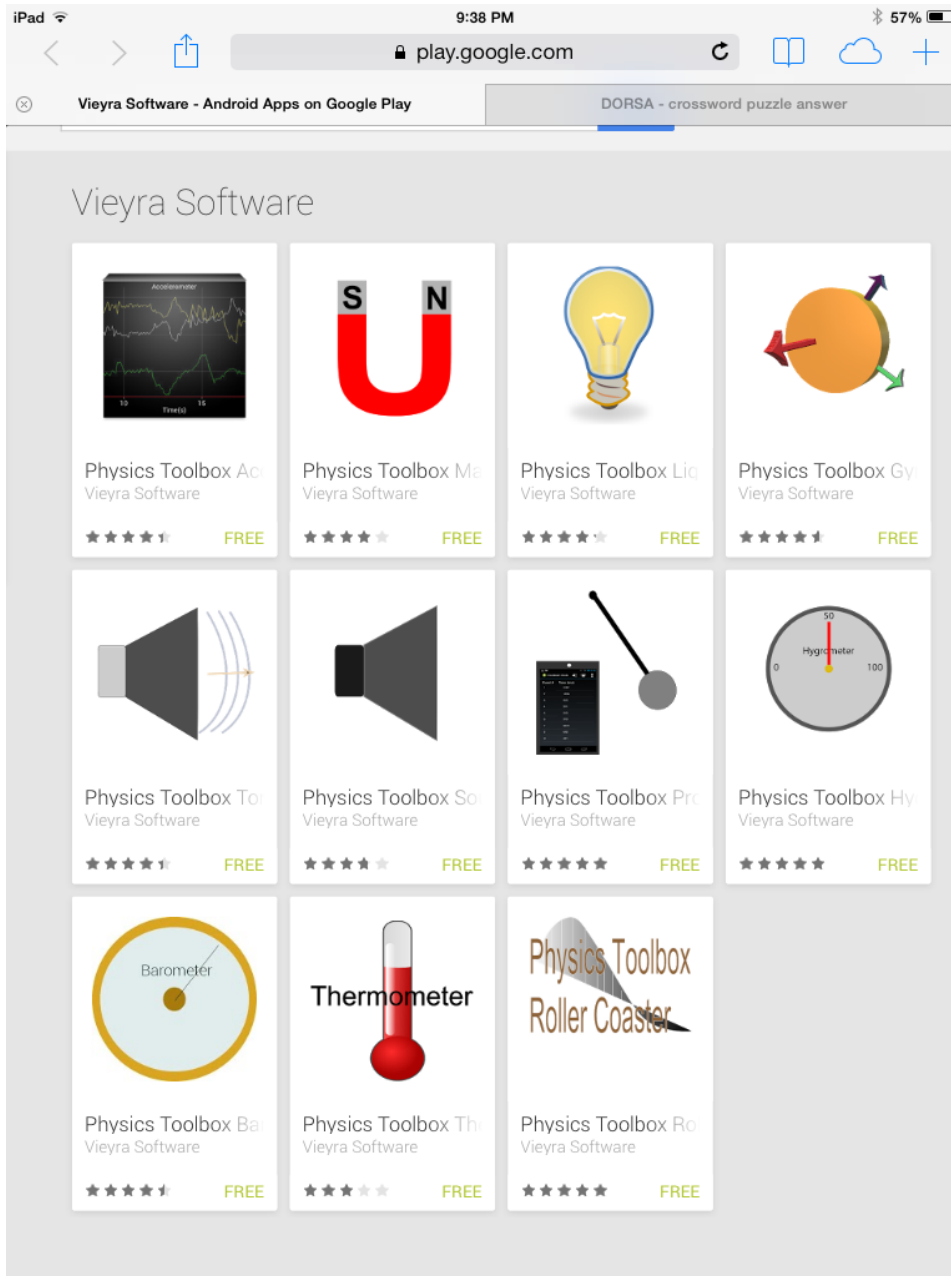 - Color Matching Challenge

- **Randomly Generated Worksheets**
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  - Torque Problem
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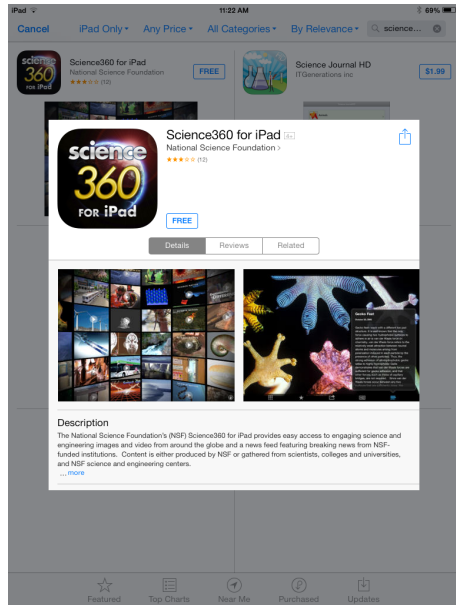index.html

Apps using built in sensors for Android devices. For additional information and support for classroom use contact Rebecca Vieyra, PTRA from Illinois

rvieyra@d155.org

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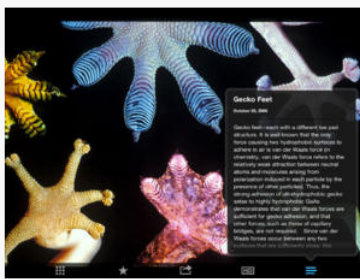★★★☆☆ (12)   **FREE**

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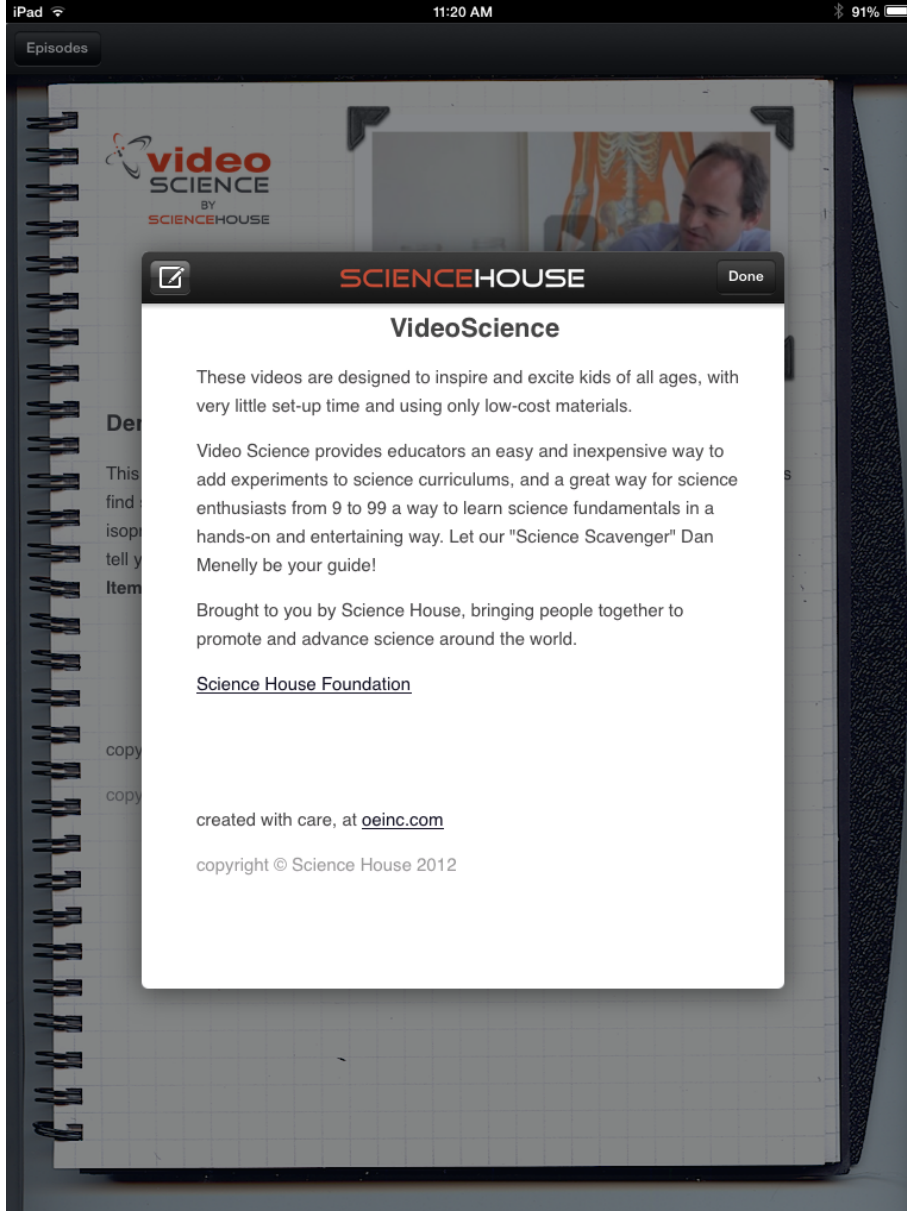
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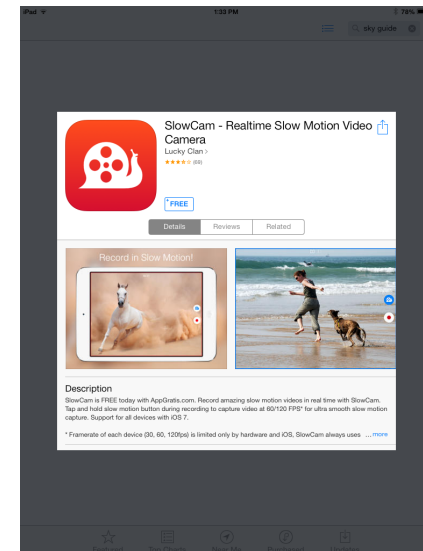
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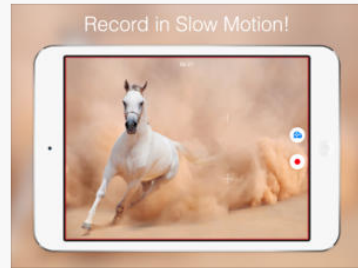
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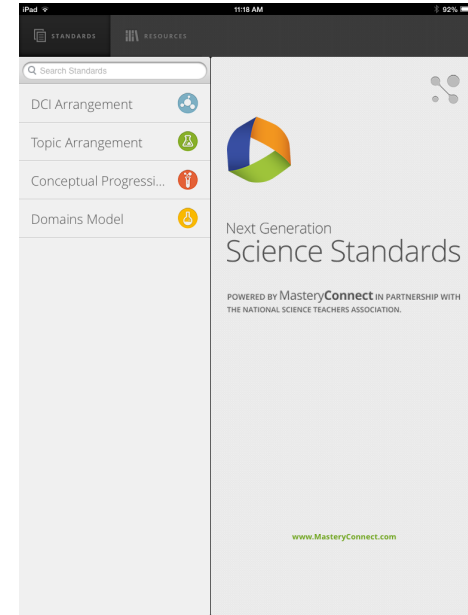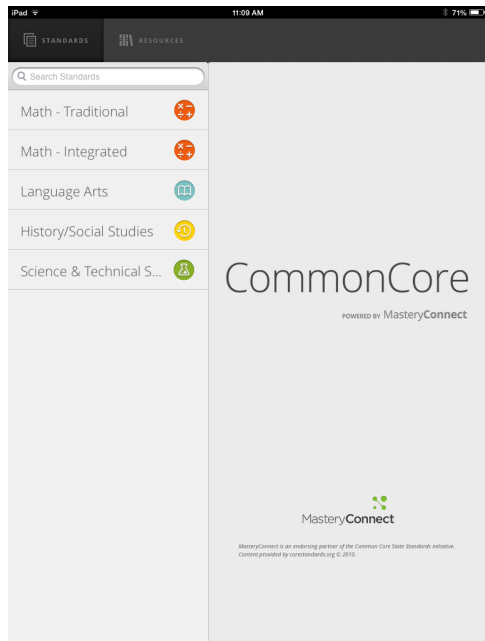
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Useful site to keep eye on daily for real bargain apps!

Metronome touch
by Chris & Uwe
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It was designed to look and feel like a real metronome. You're able to adjust the BPM by dragging the slider up and down, entering a value, or tapping to create your own. You can save your favorite sets of BPM, time signatures, and accentuation for later use. The app is able to sync across multiple iDevices as well. It also includes a precise engine, four designs to choose from, and eight sounds to choose from.

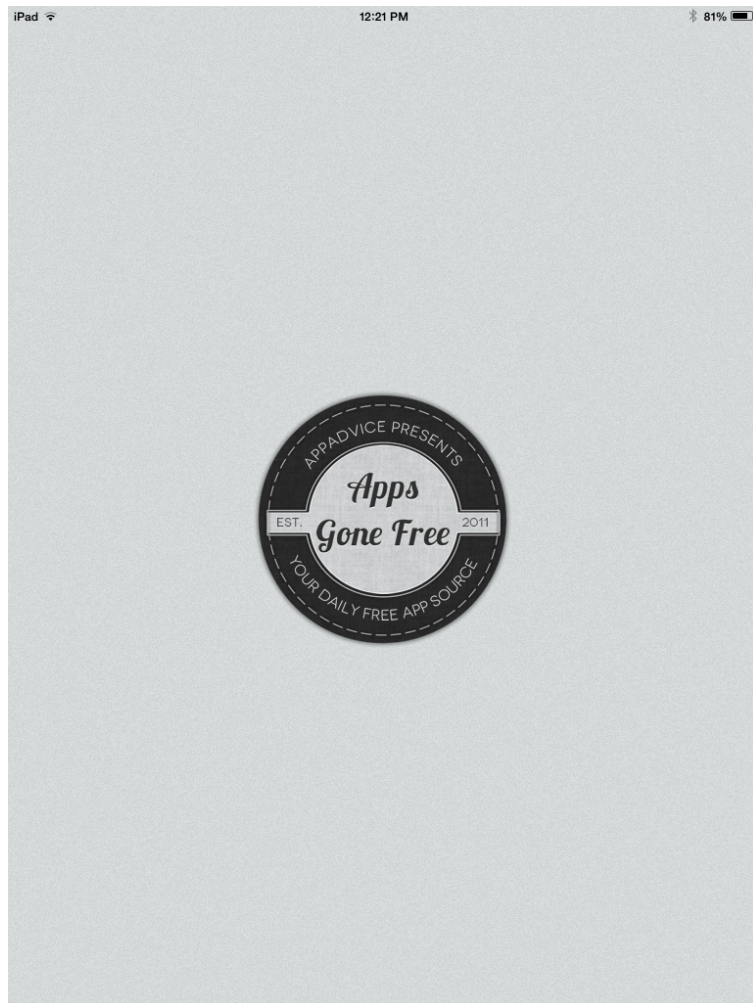Metronome touch is available for free for a limited time. It has a 4.5-star rating with a total of 21 ratings.

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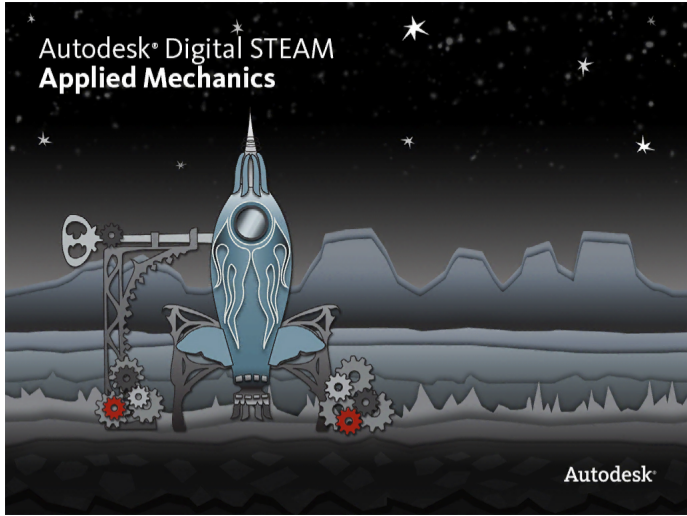
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- Bluestacks.com – Android emulator for Windows and MacOS
- Learn Light – Android app to study spectra
- Speed View – Android app to measure speed
- Kinematics+ - could be useful for struggling students
- 3d Compass
- Coaster Physics
- Evernote – similar to Goodnote
- pdfitall