

# 45 free Science Education Apps for Students





# The Chemical Touch Lite.

An easy to use periodic table which contains useful physical properties of each element such as densities and melting points.

The screenshot shows the 'Chemical Touch Lite' application interface. The periodic table is displayed with elements color-coded by groups. Neon (Ne) is selected, and its details are shown in a central panel:
 

- Symbol: Ne
- Atomic Number: 10
- Atomic Mass (g/mol): 20.1797

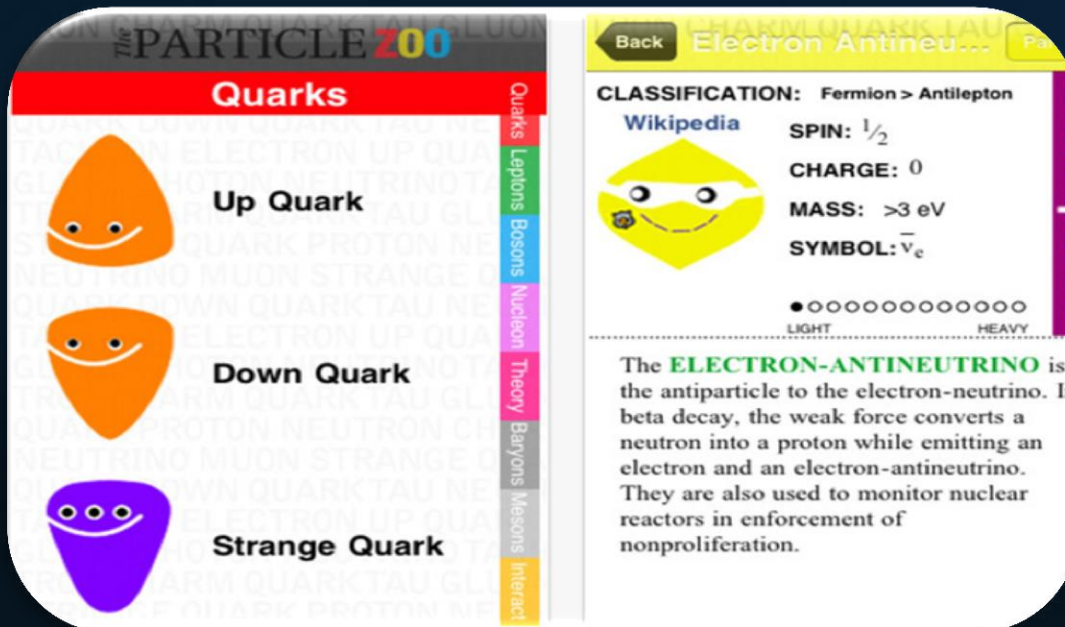
 At the bottom of the interface, there are buttons for 'Mass', 'Density', 'M. P.', 'B. P.', 'e- neg.', and 'more'. A small rainbow-colored icon is also visible on the right side of the table.

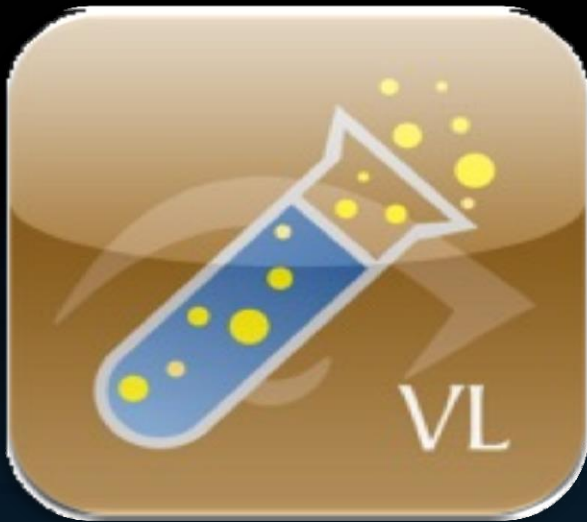




# Particle Zoo.

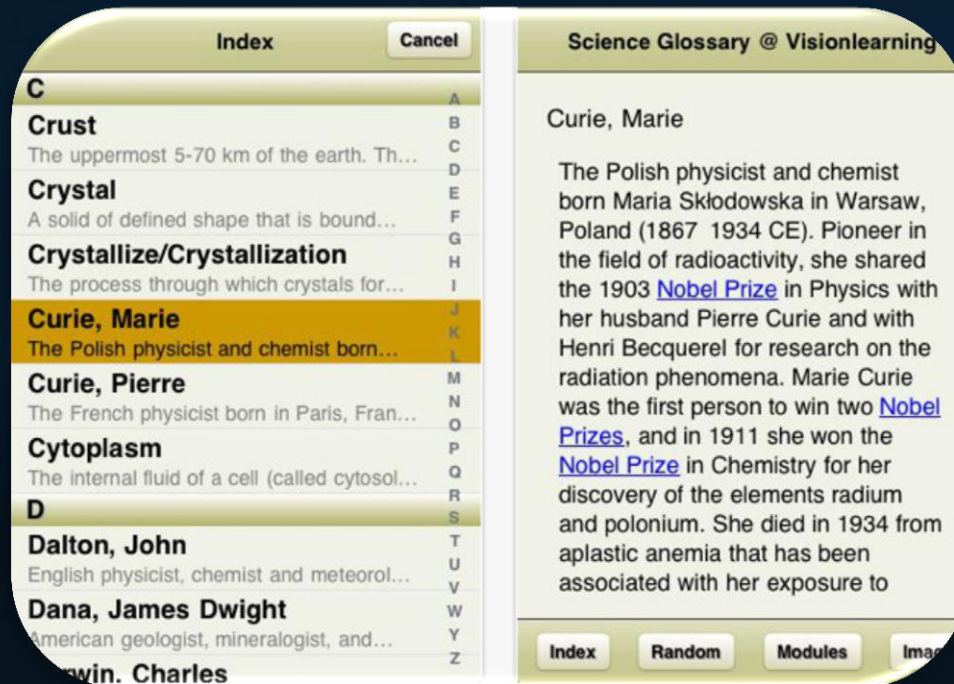
Meet the particles that make up our universe and learn about their characteristics.





# Science Glossary.

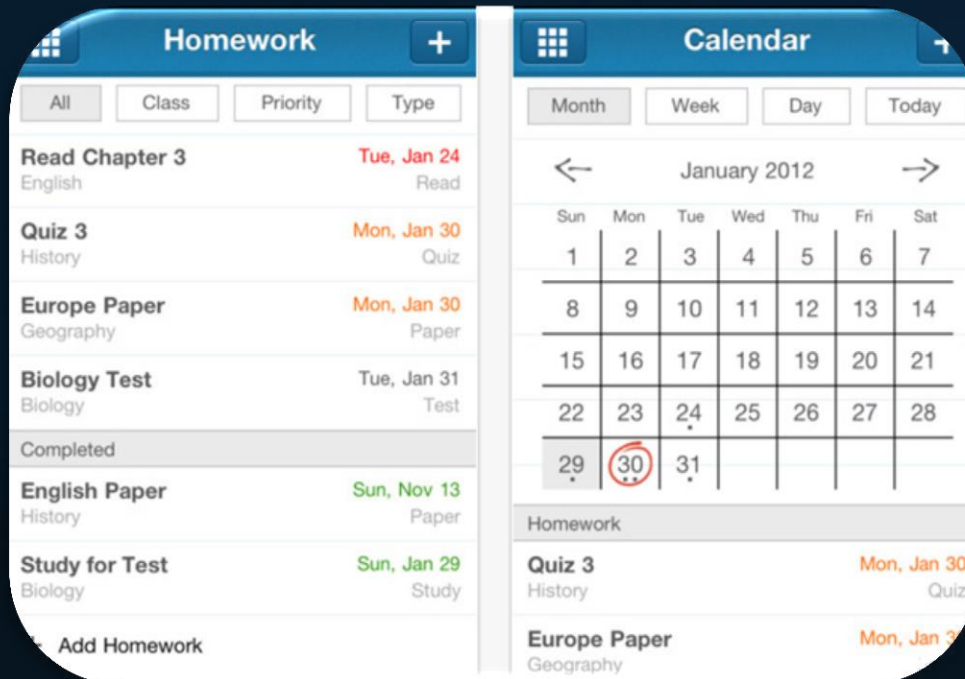
A useful glossary of scientific key words and terminology.





# MyHomework.

Record and organise all your homework and important dates with this app which reminds you when each piece is due in.

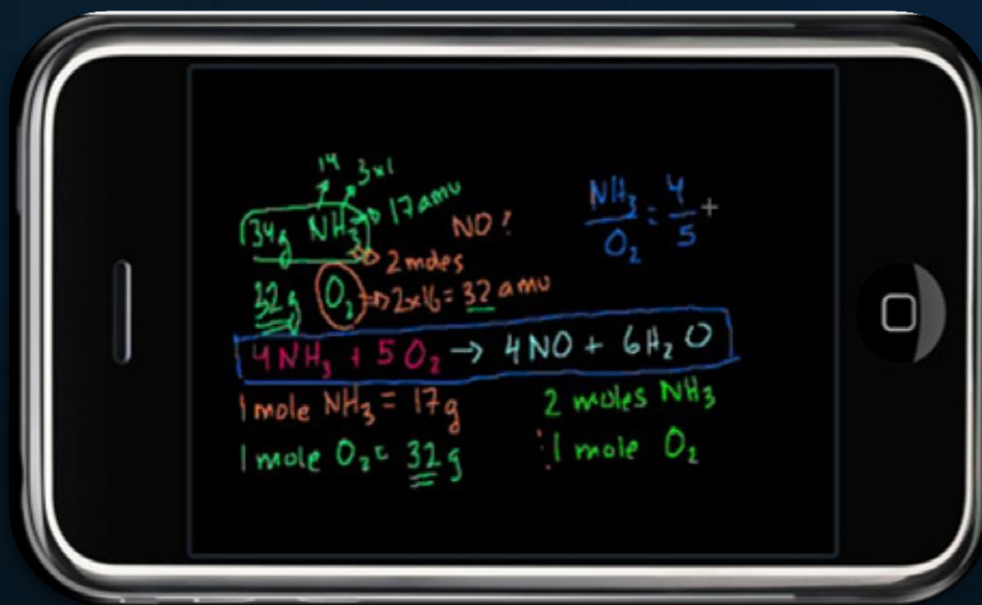






## Khan Academy: Chemistry.

Learn chemistry through video clips. Five different chemistry apps are available on many chemistry topics. A must have app for A-level chemistry.

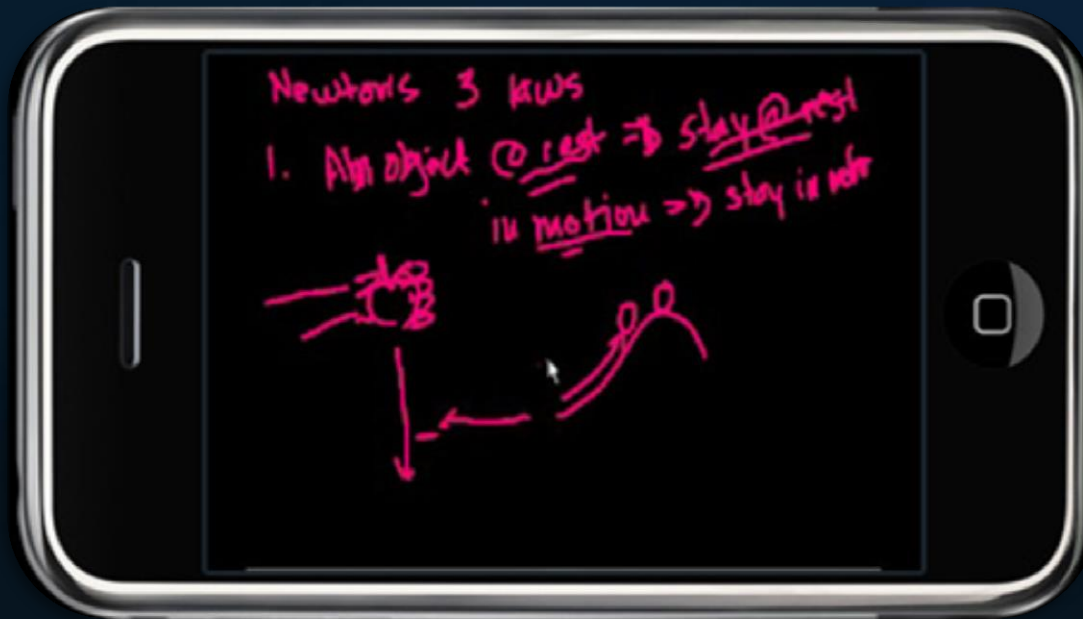


Khan  
Academy

Physics 1

# Khan Academy: Physics.

Learn physics through video clips. Five different physics apps are available on many physics topics.



**Khan  
Academy**

**Biology 1**

## Khan Academy: Biology.

**Learn physics through video clips. Five different physics apps are available on many physics topics.**







## 8 Planets.

A game to help students learn about the 8 planets in our solar system.





# SkyView.

**Augmented reality app that allows you to explore the universe. Point the camera at an object in space such as a star, a planet or a constellation and the app will identify it giving you interesting facts about each.**

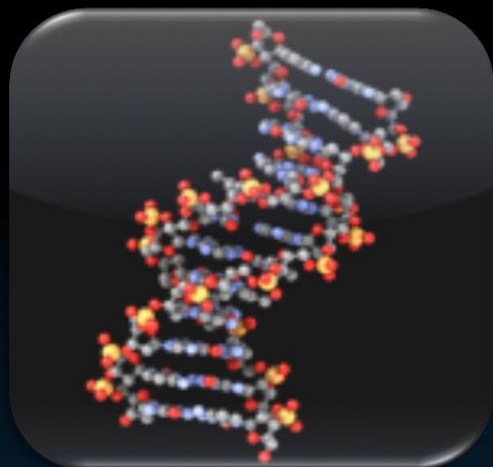




# SkyORB.

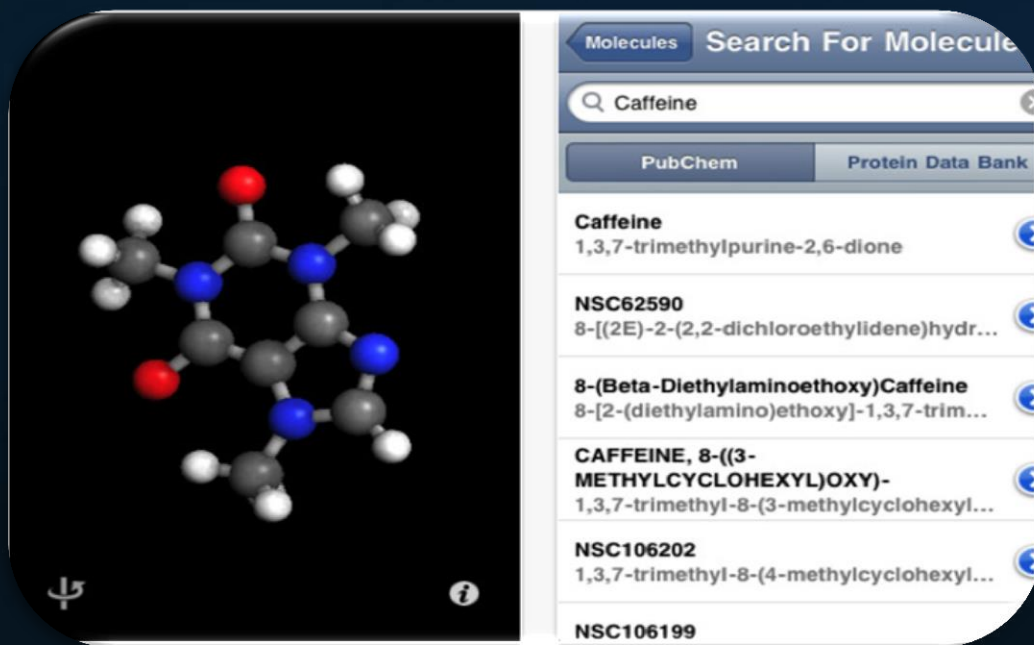
Fly through the solar system and investigate the moons around each planet along with details of each planetary object.





# Molecules.

View three-dimensional molecules exploring their structure in space. Molecules can be downloaded from the RCSB Protein Data Bank and PubChem.







# GCSE Science.

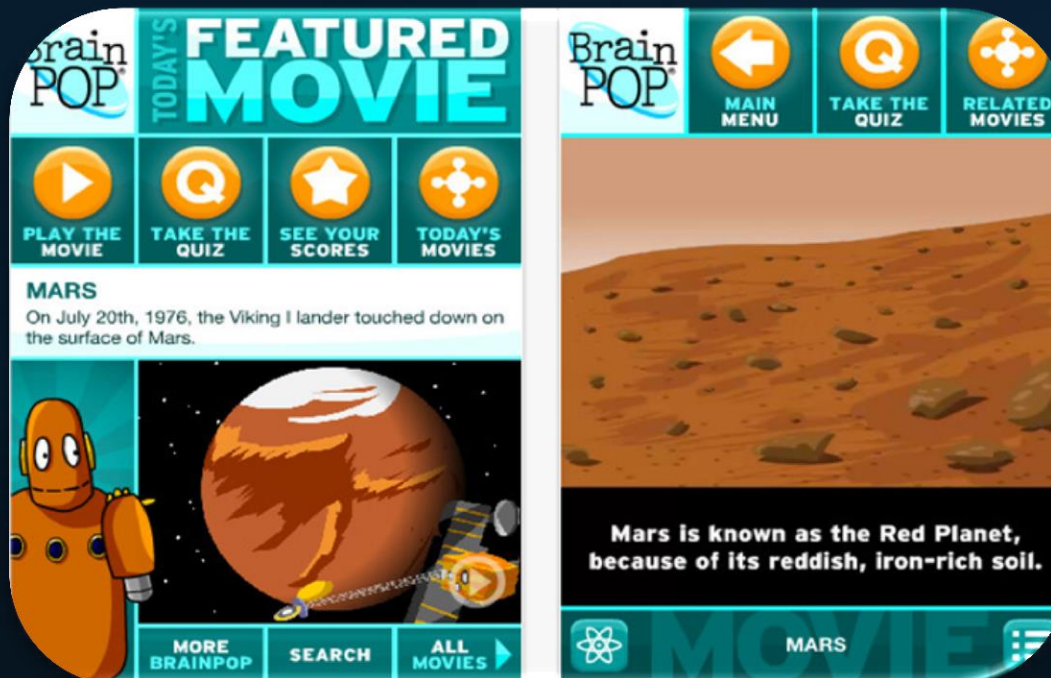
**Revision material and notes  
for almost every topic in  
the GCSE specification.**





BrainPOP.

Animated movies on science topics each with an interactive quiz.

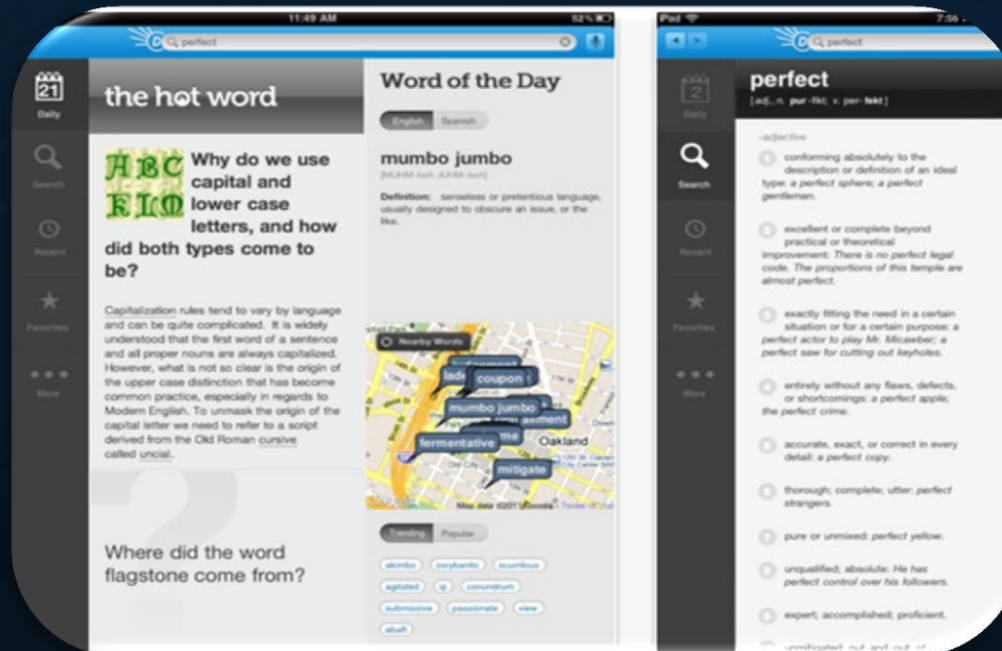






# Dictionary.com

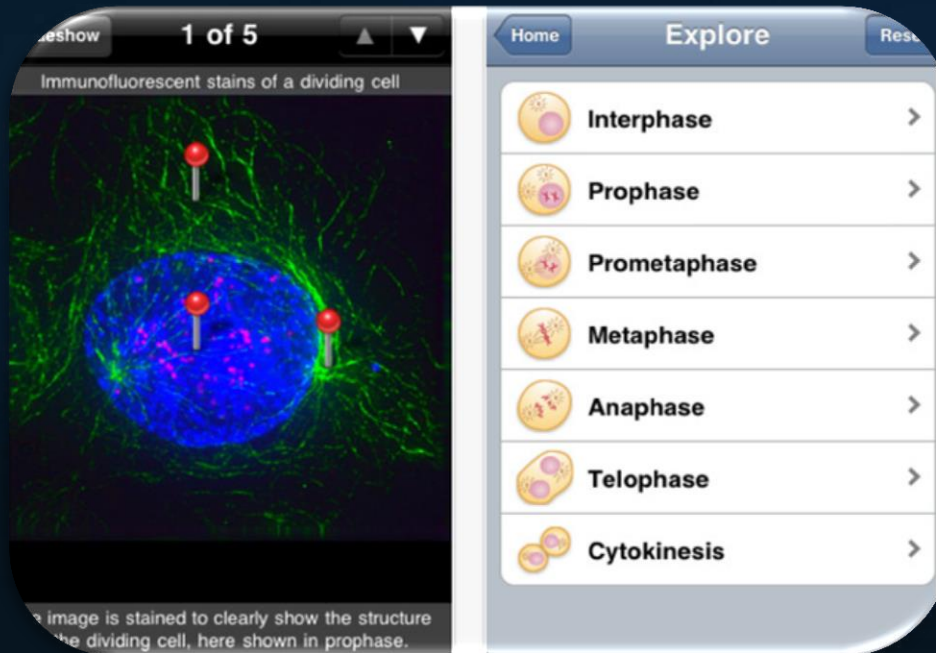
Dictionary and thesaurus,  
an app all students should  
have.





# Mitosis.

Interactively explore each step in mitosis through pictures, animations, audio and quizzes to test your knowledge.



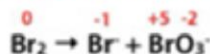


# Chem Pro Lite.

**Chemistry tutor in your pocket. 10 basic chemistry video lessons from atomic masses to balancing equations.**

## Balancing Redox Reactions in Base

9. Add to each side of the added equation, the same amount of OH<sup>-</sup> as there are H<sup>+</sup>



Br is oxidized and loses 5 e<sup>-</sup>

Br is reduced and gains 1 e<sup>-</sup>



Combine to form 6 H<sub>2</sub>O

Electrons lost must always equal to electrons gained

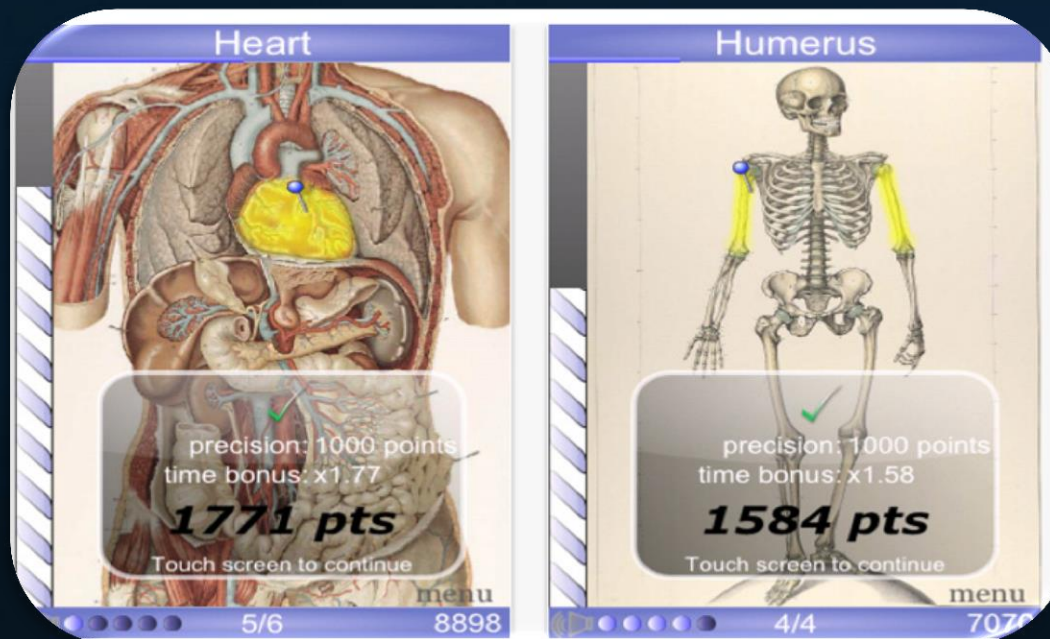
Balance Mass *and* Charge





# Speed Anatomy Lite.

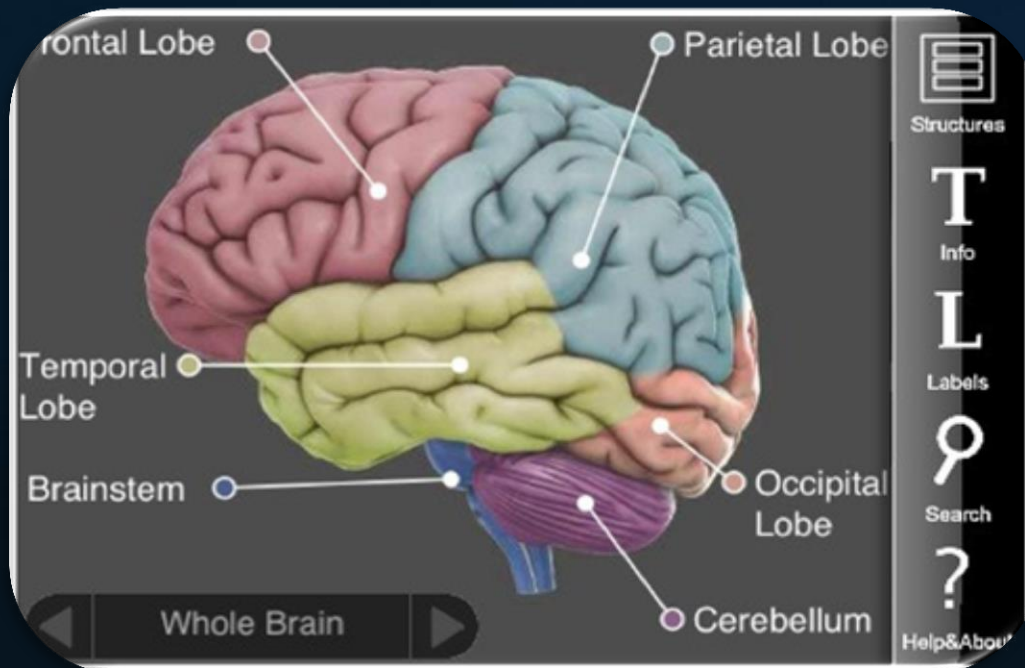
Test your speed and knowledge of the body in this game by identifying the body parts.





## 3D Brain.

**Explore the brain. This app allows you to rotate and zoom through the brain and includes labels functions of each part.**

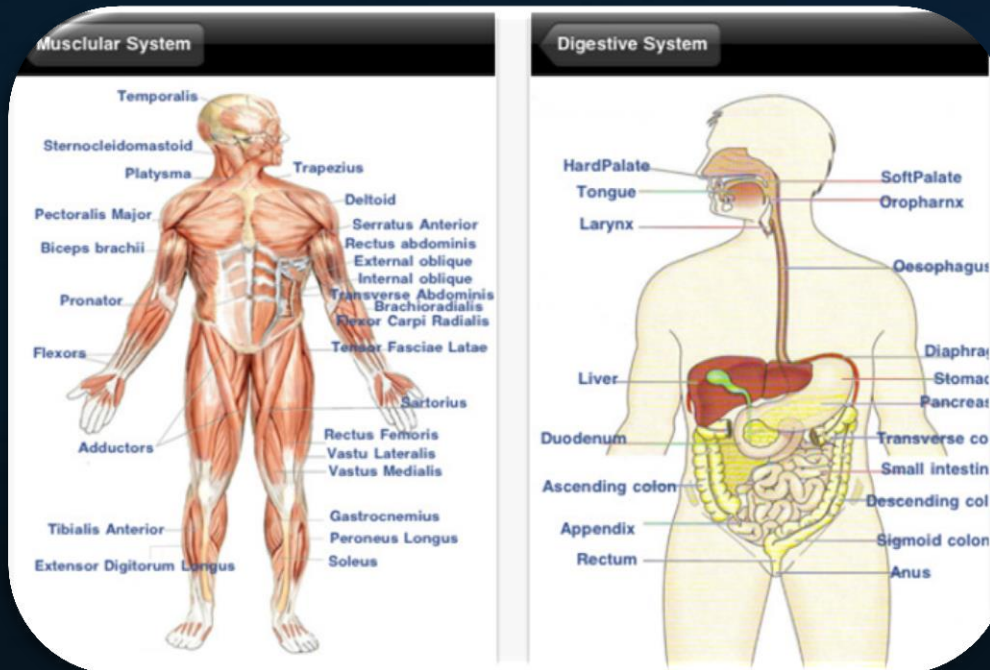






# Human Anatomy.

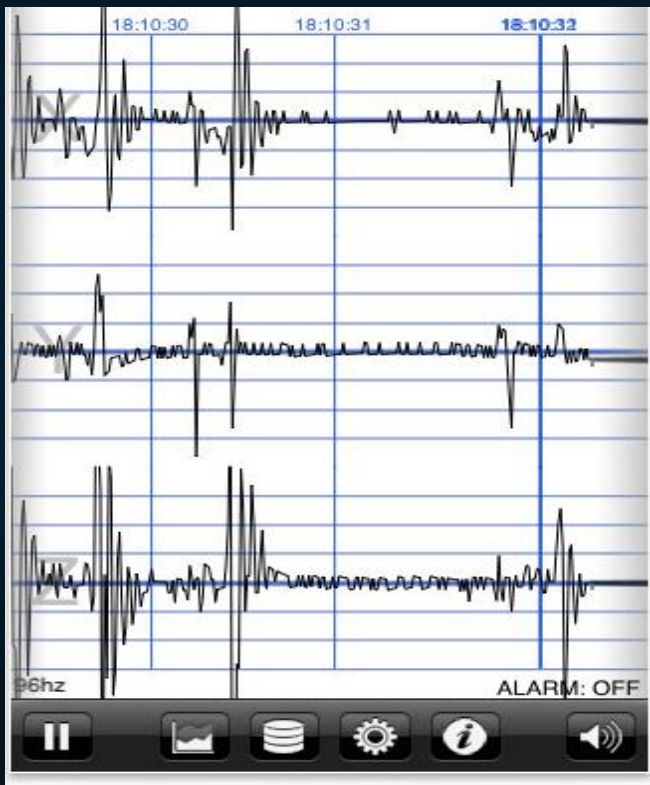
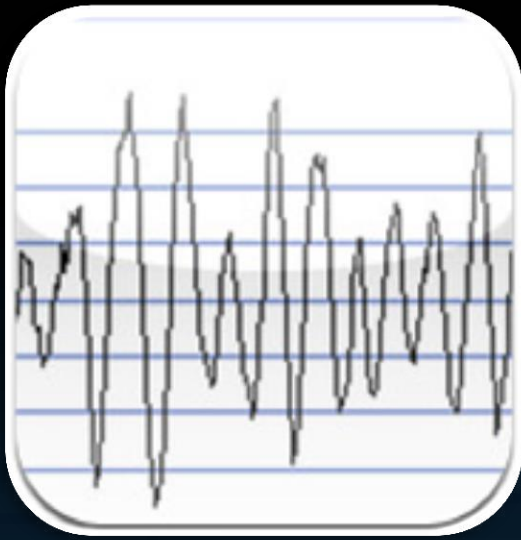
**Learn the names and locations of the parts of the body from muscles to bones and glands.**

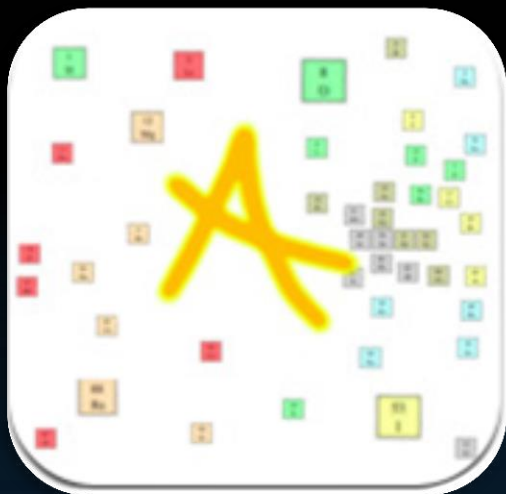




# iSeismometer.

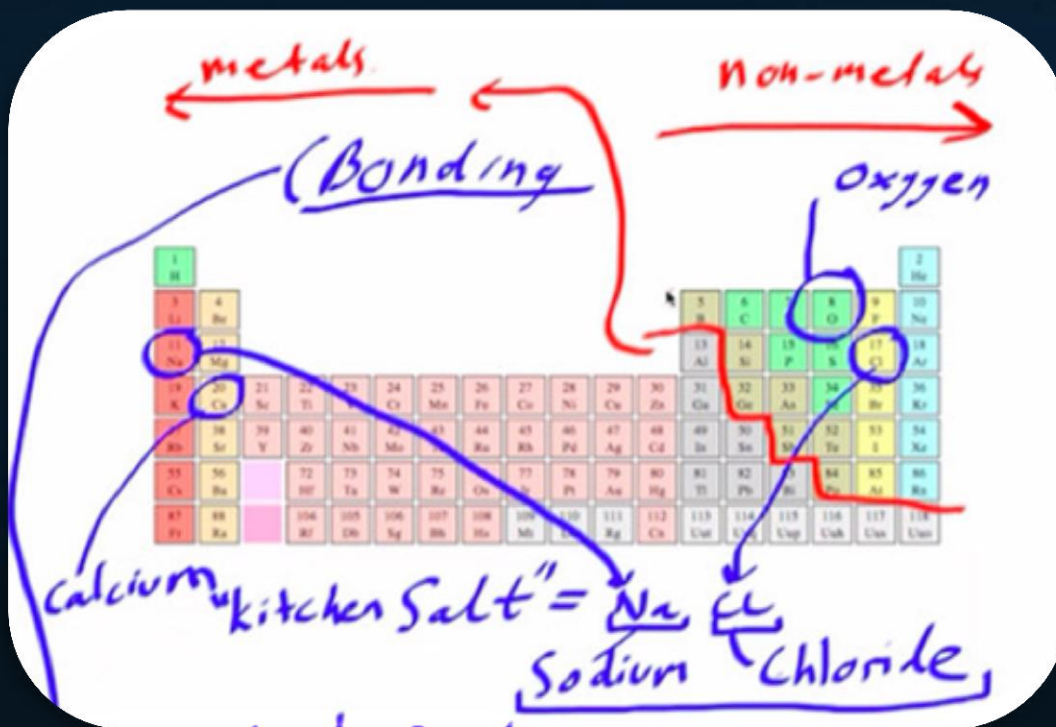
**This app detects movement producing graphs of the data in three planes. Useful to demonstrate wave patterns.**





# Chemistry Exam Tutor - Part 1

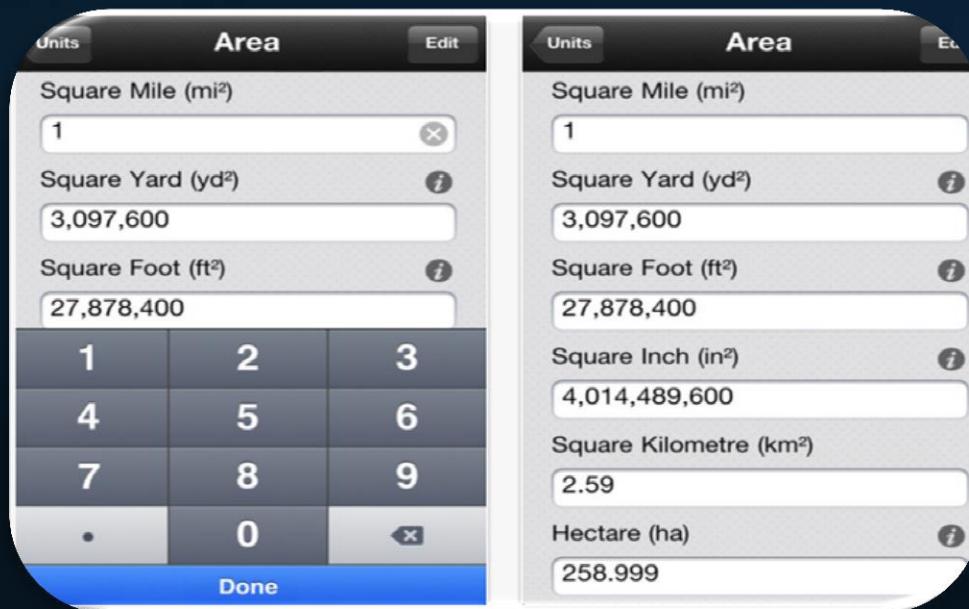
**18 chemistry videos and notes  
on AS topics such as bonding  
and atomic structure.**





# Units.

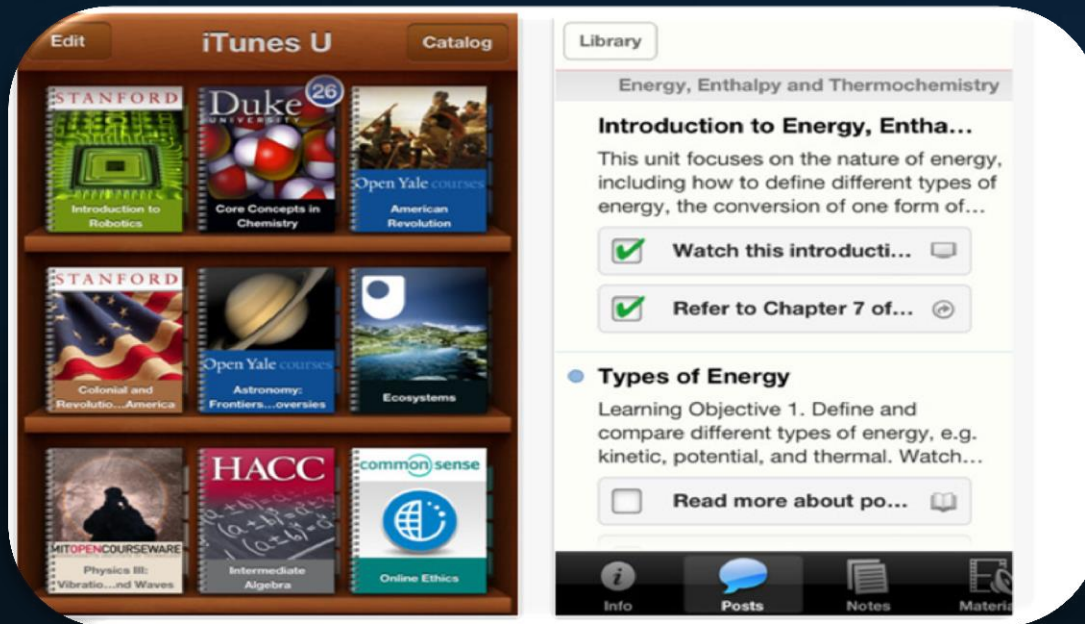
**Units is a really useful app that lets you easily convert from various units such as speed, time, length, volume, area, power, and temperature**





# iTunes U.

Access lectures and courses from institutions all over the world such as Harvard and Oxford University.





# Best Science Facts.

An app full of mind-boggling facts which you can SMS, email or Facebook to your friends.

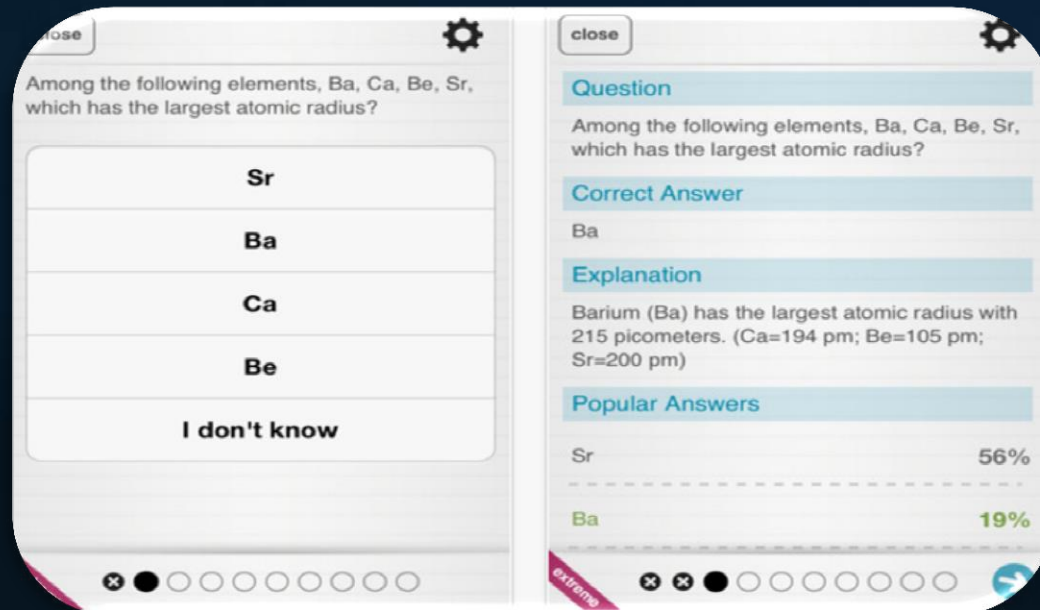






# Science Quiz.

Test yourself using this science trivia app and choose from thousands of questions from anatomy to zoology.



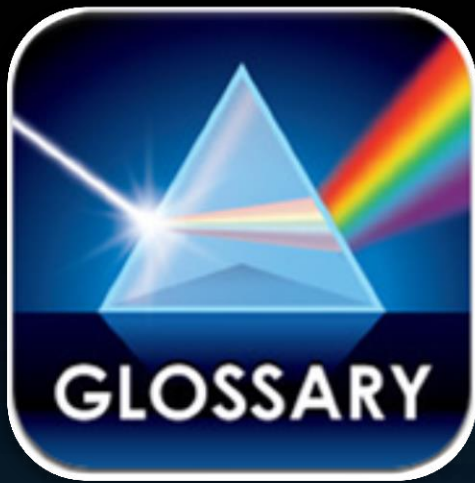




# The Elementals.

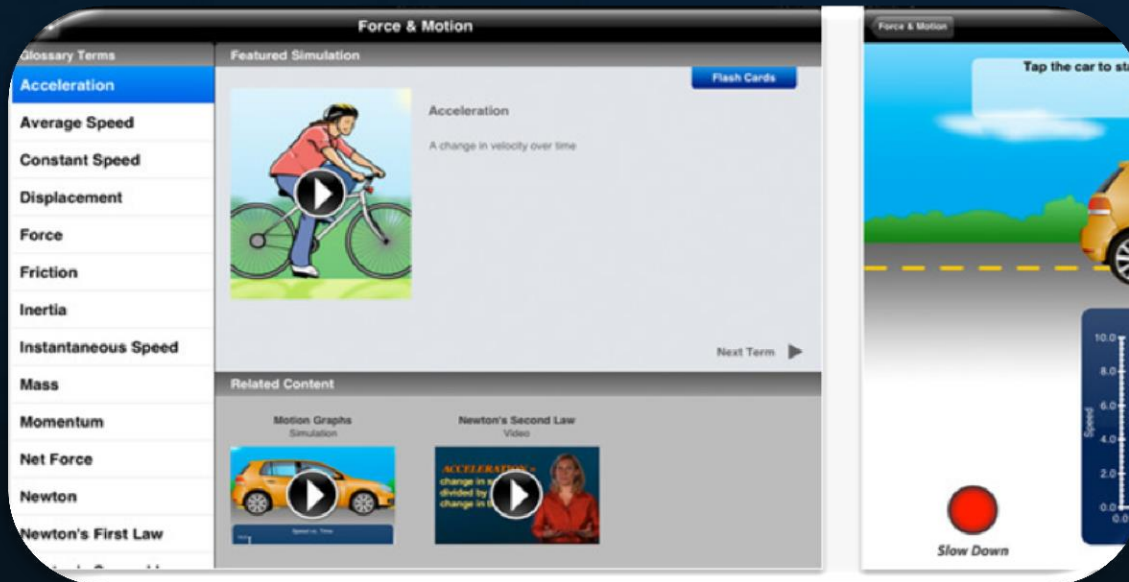
**A quirky periodic table  
showing the basic structure  
of an atom.**





## PhysicalSci (iPad).

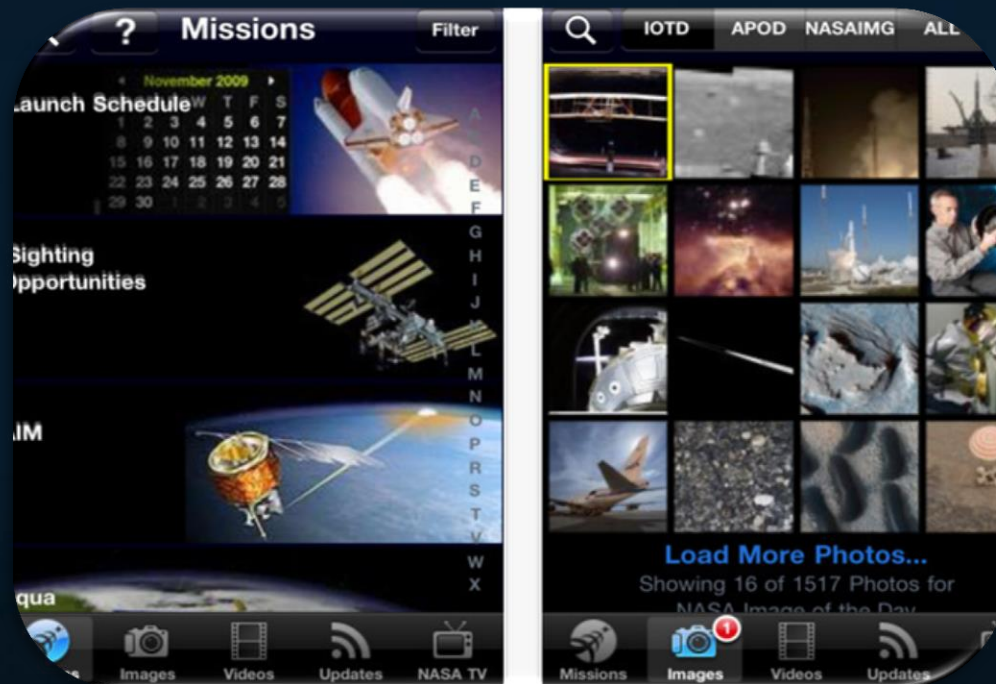
**Physical science studies matter, energy and change. This app is a glossary and study tool for key terms presented through flash cards and videos.**





# NASA

**View NASA latest images from space and learn about their latest missions.**





# Instant Heart Rate.

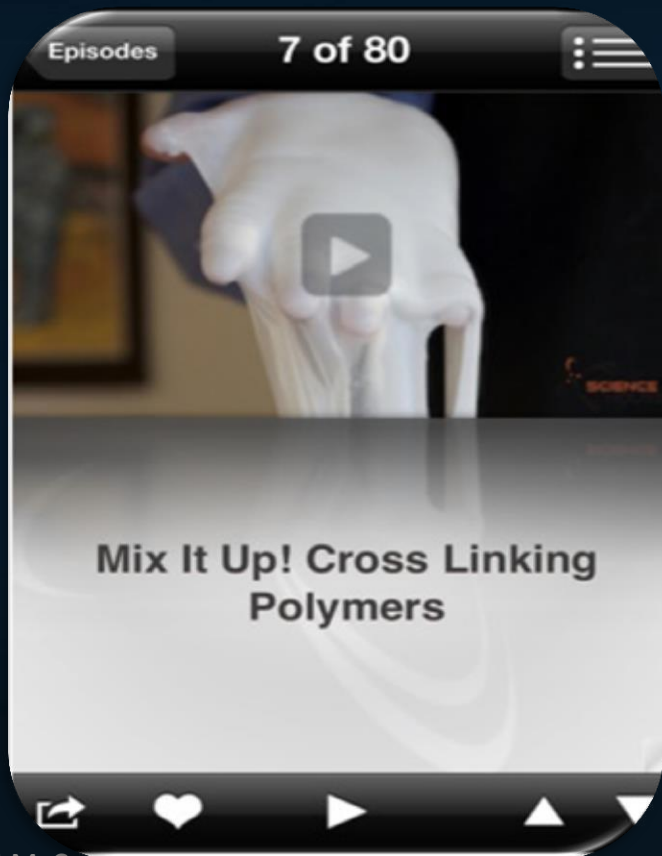
**Use the camera as an oximeter to measure your heart rate then share the results on twitter or Facebook.**





# VideoScience

**This app contains over 80 videos of science experiments that you can carry out at home with everyday substance.**

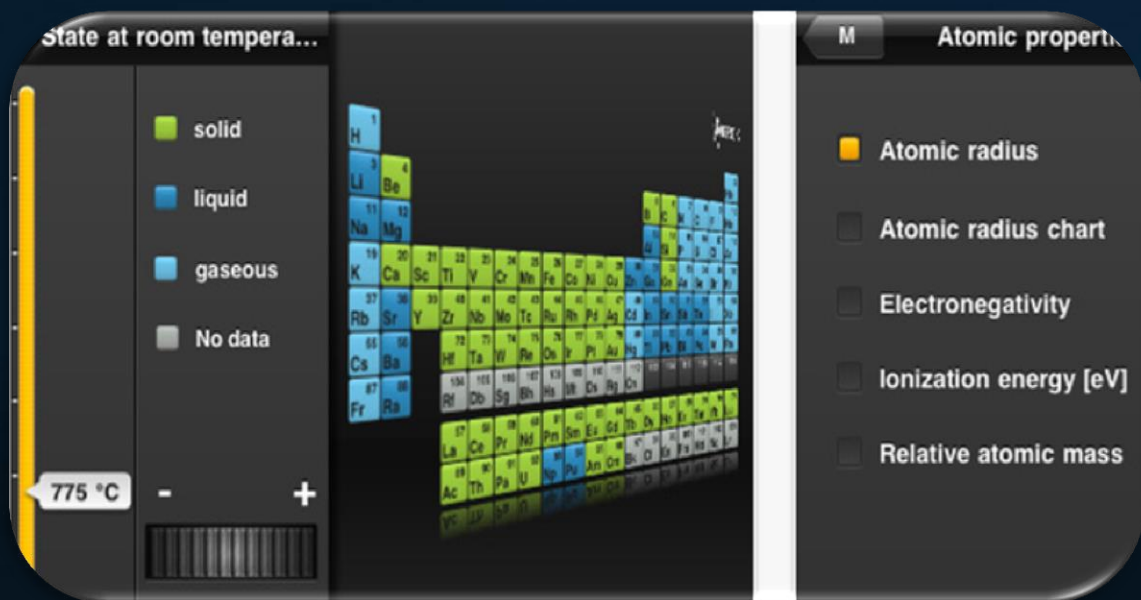






# Merck Periodic Table of the Elements HD

**Award winning periodic table with detailed visualisation of each element.**

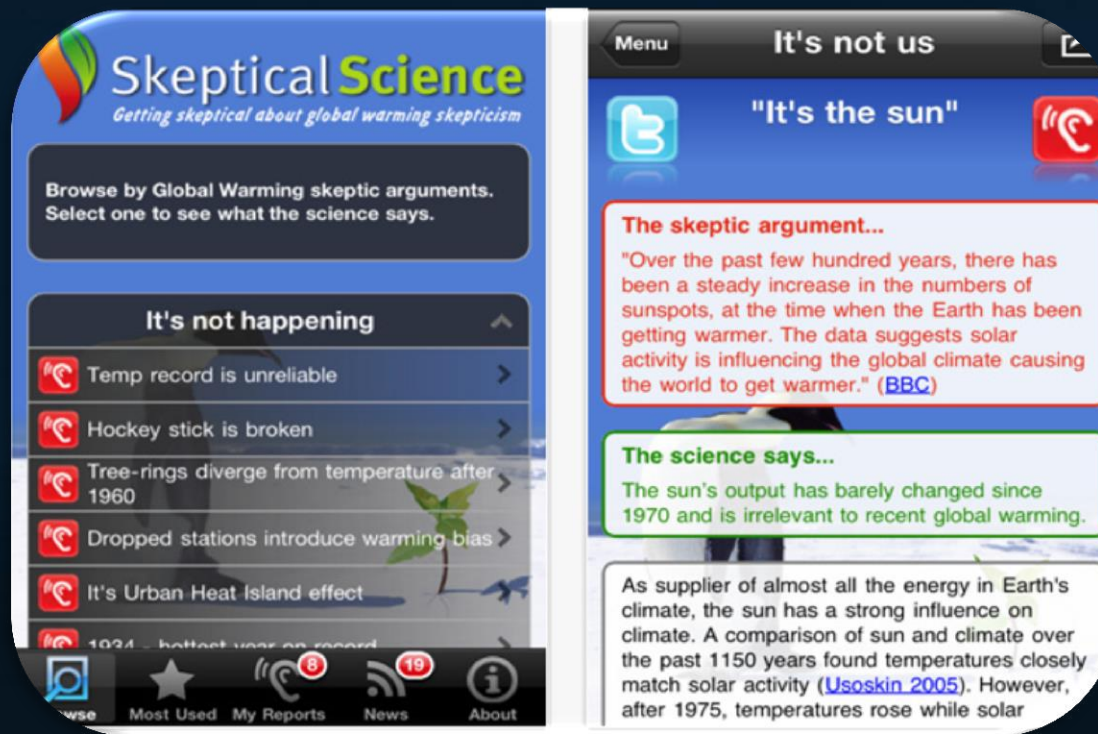






# Skeptical Science

An app which gives the true facts about global warming based on scientific fact.





# iThermometer Free

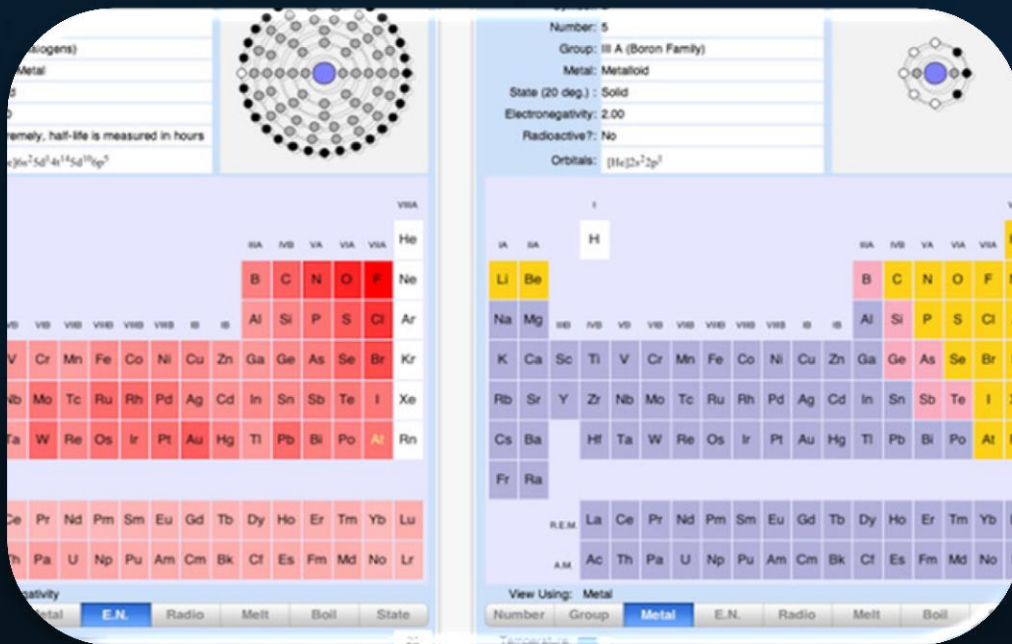
**A GPS thermometer to measure the temperature, wind conditions where you are.**





# The Periodic Table of Elements.

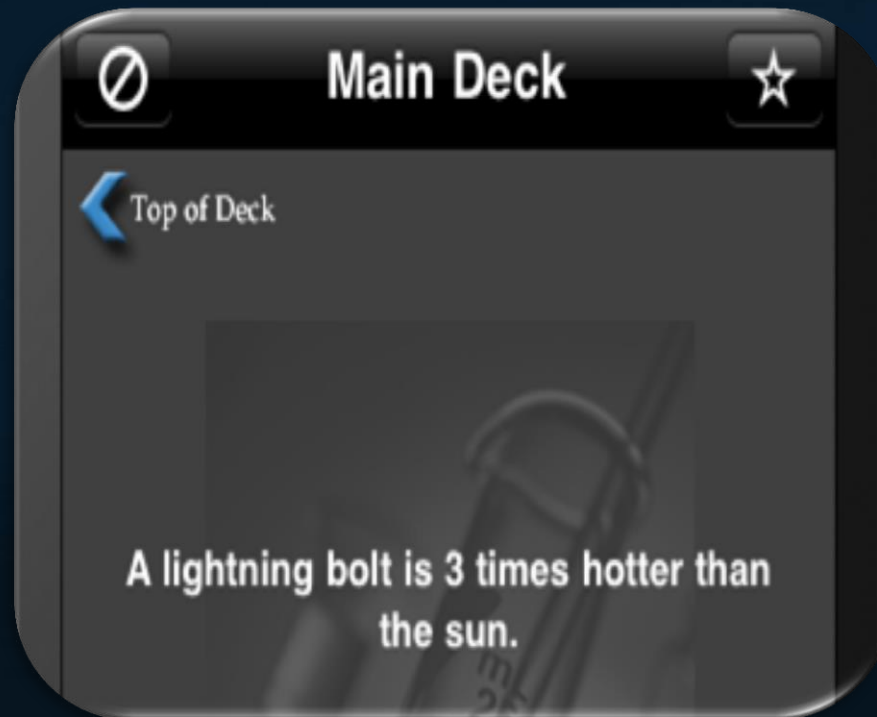
**An essential app for every scientist including information about electron configuration, atomic structure and physical properties.**





## Science Facts.

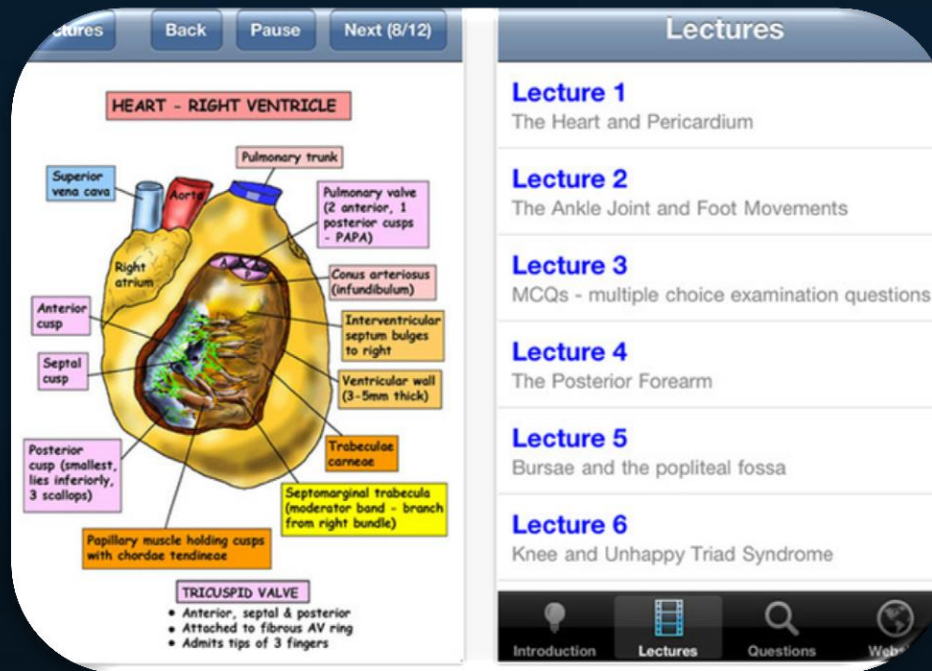
**Thousands of interesting  
Science facts.**





# Anatomy Lectures

Learn human anatomy with this app useful for Science and GCSE PE.

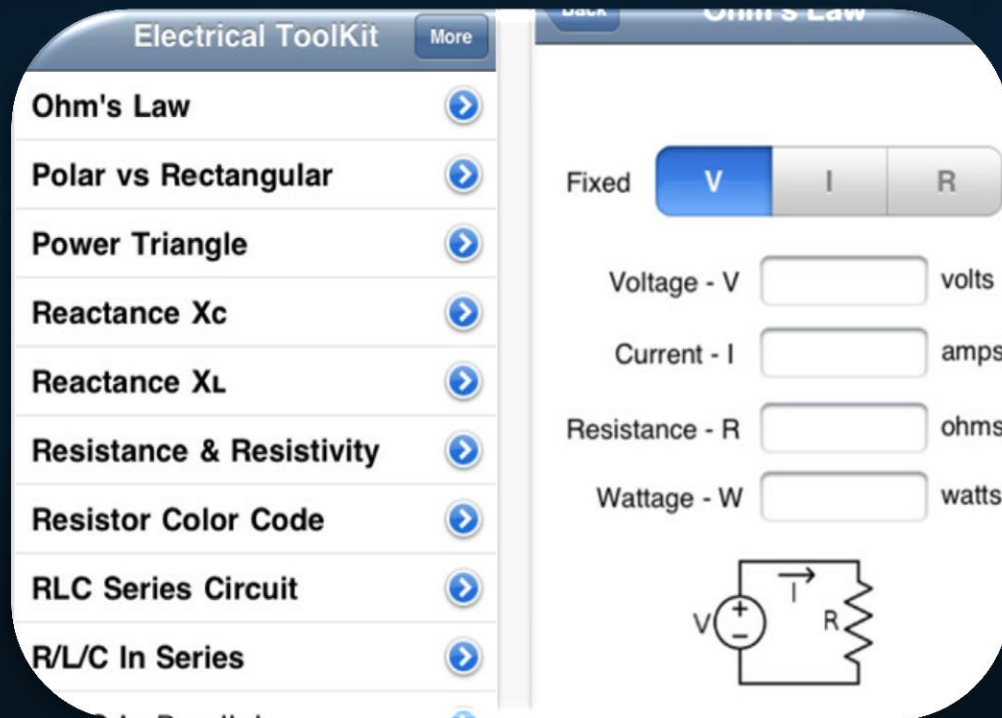






# Electrical ToolKit

**App for calculating electrical data such as current, voltage and resistance.**





## Stopwatch.

**Use this app to time experiments in class and at home when completing practice past papers.**

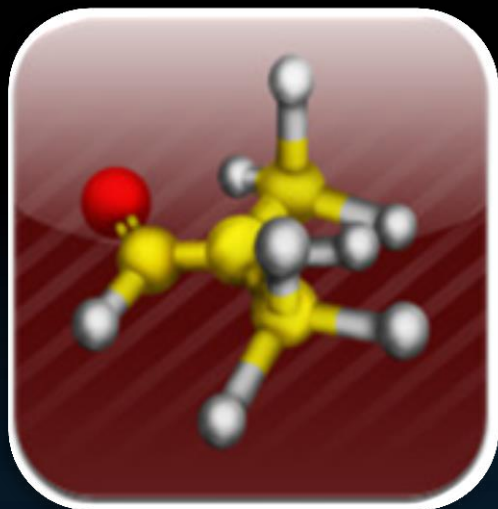




# Experimenter.

Fun experiments you can do at home to amaze your friends through step by step video instructions.





# Organic Chemistry Nomenclature Quizillator.

Learn the names and formulas of the different functional groups with this quiz app recommended for a-level chemistry.

**Reference**

<b>Carboxylic Acid</b> $\text{R}-\text{C}(=\text{O})\text{OH}$	<b>Ester</b> $\text{R}-\text{C}(=\text{O})\text{OR}'$	<b>Acyl Halide</b> $\text{R}-\text{C}(=\text{O})\text{OX}$	<b>Amide</b> $\text{R}-\text{C}(=\text{O})\text{NH}_2$
<b>Imide</b> $\text{R}-\text{C}(=\text{O})\text{N}(\text{R}')\text{C}(=\text{O})\text{R}''$	<b>Nitrile</b> $\text{R}-\text{C}\equiv\text{N}$	<b>Aldehyde</b> $\text{R}-\text{C}(=\text{O})\text{H}$	<b>Ketone</b> $\text{R}-\text{C}(=\text{O})-\text{R}'$
<b>Alcohol</b> $\text{R}-\text{CH}_2\text{OH}$	<b>Thiol</b> $\text{R}-\text{CH}_2\text{SH}$	<b>Amine</b> $\text{R}-\text{N}(\text{R}')\text{R}''$	<b>Imine</b> $\text{R}'-\text{C}=\text{NR}''$
<b>Ether</b> $\text{R}-\text{O}-\text{R}'$	<b>Sulfide</b> $\text{R}-\text{S}-\text{R}'$	<b>Halide</b> $\text{R}-\text{X}$	<b>Nitro</b> $\text{R}-\text{NO}_2$
<b>Azide</b> $\text{R}-\text{N}_3$	<b>Alkene</b> $\text{C}_n\text{H}_{2n}$	<b>Alkyne</b> $\text{C}_n\text{H}_{2n-2}$	<b>Alkane</b> $\text{C}_n\text{H}_{2n+2}$

**Organic Chem Nomenclature**

<a href="#">Outline of IUPAC guidelines.</a>
<a href="#">Summary.</a>
<a href="#">Example.</a>
<a href="#">Table 1. Common functional groups...</a>
<a href="#">Table 2. Prefixes...</a>
<a href="#">Table 3. Common hydrocarbon substituents.</a>
<a href="#">Table 4. Trivial names.</a>

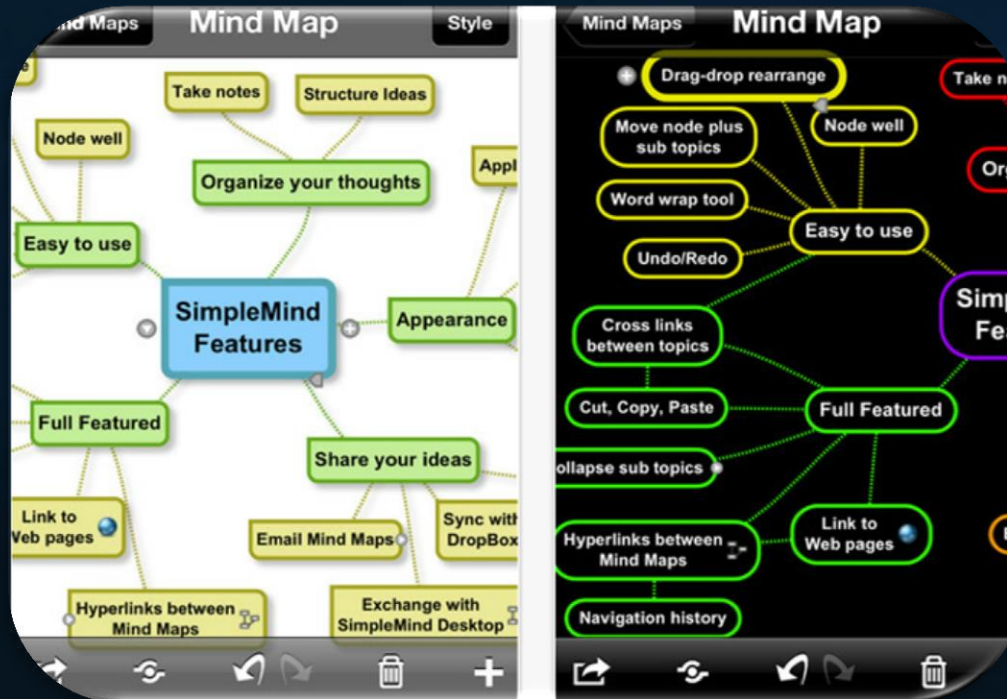
Nomenclature of organic compounds is at the core of organic chemistry. To comprehend the principles of organic chemistry you must be able to designate and





# SimpleMind+ (Mind Mapping).

**Create your own mind maps and ideas useful for topic summary and revision.**







## Decibel 10.

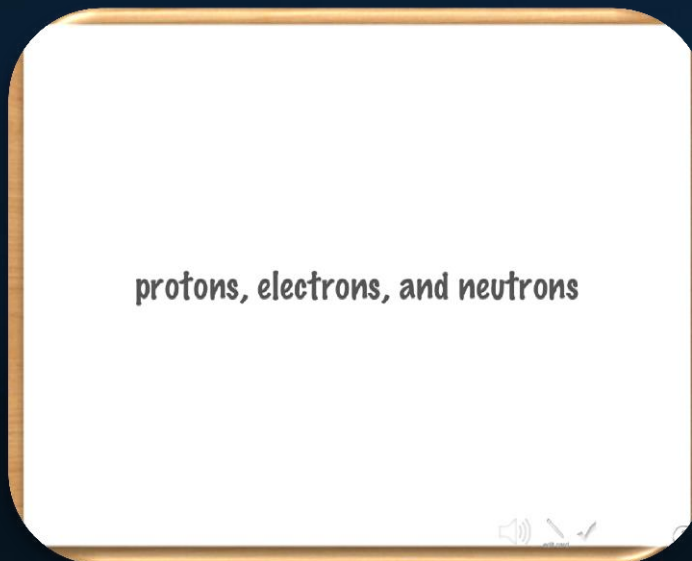
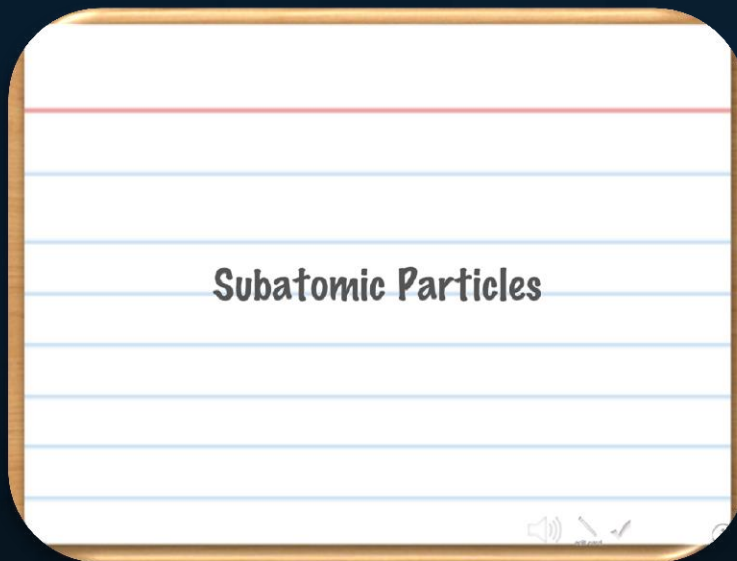
**An app to measure the sound pressure levels all around you.**





# Flashcards+

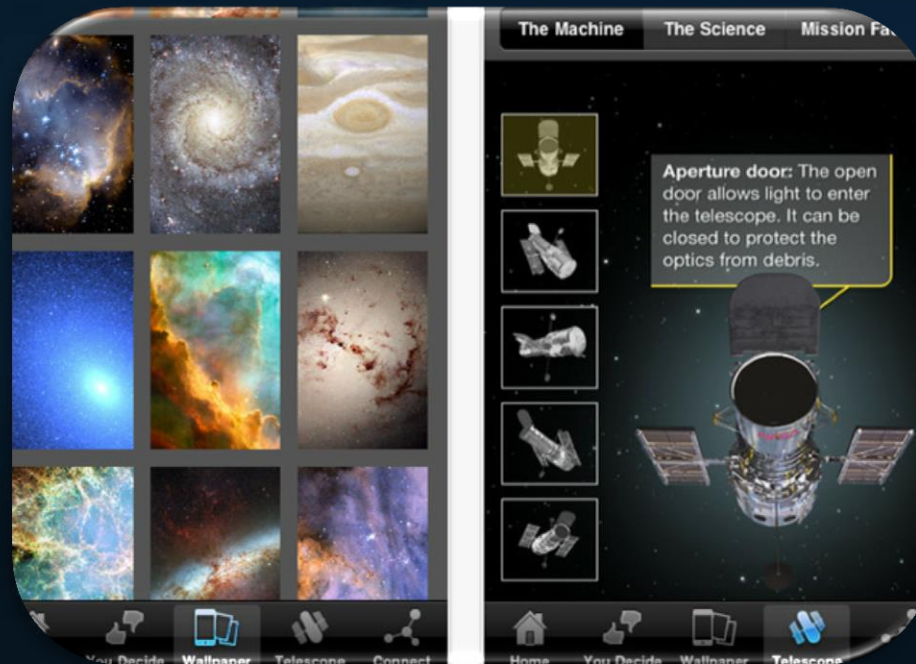
**Use this app to make revision cards of key words and terminology. Download from thousands or make your own.**





# HubbleSite.

A collection of awe inspiring images taken from the Hubble Telescope.





# iCell

**3D images of bacteria, animal and plant cells with labels and information of each part.**

