



CENTER FOR  
RESEARCH ON  
TEACHING  
EXCELLENCE  
AT UC MERCED

# TEACHING WITH TECHNOLOGY AND CREATIVE MEDIA

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**Prompt: Answer these questions:**

- (1) How have you used technology in the classroom in the past?**
- (2) What discipline do you teach?**
- (3) Why are you here at this workshop compared to others?**

# LEARNING OUTCOMES

By the end of the workshop participants will be able to:

- Understand technological demands of current students
- Identify the role for technology in the classroom
- Understand digital learning experience attributes
- Take advantage of required text media and resources

Goal: Take away a suite of technology and creative media ideas

# BEFORE JUMPING DOWN THE RABBIT HOLE

- Strategy required!!
  - Students have differential access to technology
    - [PBS link](#)
- People learn very differently through technology
  - Classic vs. Online
  - [Gender, age, lifestyle...](#)
- Always think of student
  - Engagement
  - Preparedness
  - Responsibility

# TECHNOLOGICAL ROLE

- Adapting to the 21<sup>st</sup> Century “always on” mentality
- Student ownership
- Feedback / evaluation
- Discussion forums
- Assignments (posting or using technology)
- Interactive

# DIGITAL LEARNING EXPERIENCE ATTRIBUTES

- Authentic – A way to reconcile classroom and social use of the media, should be tied to specific learning goals or activities
- Collaboration – Learning is social and virtual collaboration can be a creative way get peer feedback or do group work
- Interactive – Provides students a chance to create their own content and interact via social media to help them express their identity
- Student-Centered – Shifts the learning responsibility to the student, forcing students to take an active role in their own learning process
- On Demand – When, where and how students want to view the content, made possible

# VIDEOS

A video can be used as a content reference, a way to engage the students, as a way to connect the content to their lives, or develop their process (video critique)

- Requires upfront effort
- Khan Academy: <https://www.khanacademy.org/>
- Biology, Creature Cast: <http://creaturecast.org/>
- English, How to write an essay [How to write an essay](#)

# FACEBOOK

Study chat

Distribute Homework

Communication  
HUB

Content Share (video/  
pages)

Literature Share

There are pages on Facebook created by Pulitzer Prize-winning journalists, politicians, museums, and the National Geographic Society and thousands more that students can like in order to have relevant content delivered to their news feed.

In your teaching, you can also include Facebook pages in your list of recommended websites that you provide students. The chart below includes examples of pages relevant to learning.

| <b>Facebook Pages for Educators</b>       |                                                                                                                               |
|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| <b>National Geographic Education</b>      | <a href="http://www.facebook.com/natgeoeducation">http://www.facebook.com/natgeoeducation</a>                                 |
| <b>British Museum</b>                     | <a href="http://www.facebook.com/britishmuseum">http://www.facebook.com/britishmuseum</a>                                     |
| <b>Girl Up (UN Foundation)</b>            | <a href="http://www.facebook.com/girlup">http://www.facebook.com/girlup</a>                                                   |
| <b>NASA</b>                               | <a href="http://www.facebook.com/NASA">http://www.facebook.com/NASA</a>                                                       |
| <b>Smithsonian Institution</b>            | <a href="http://www.facebook.com/SmithsonianInstitution">http://www.facebook.com/SmithsonianInstitution</a>                   |
| <b>Youth Olympic Games</b>                | <a href="http://www.facebook.com/youtholympicgames">http://www.facebook.com/youtholympicgames</a>                             |
| <b>Library of Congress</b>                | <a href="http://www.facebook.com/libraryofcongress">http://www.facebook.com/libraryofcongress</a>                             |
| <b>Musee du Louvre</b>                    | <a href="http://www.facebook.com/museedulouvre">http://www.facebook.com/museedulouvre</a>                                     |
| <b>PBS Kids</b>                           | <a href="http://www.facebook.com/PBSKIDS">http://www.facebook.com/PBSKIDS</a>                                                 |
| <b>Kabul Museum</b>                       | <a href="http://www.facebook.com/pages/Kabul-Museum/317714056516">http://www.facebook.com/pages/Kabul-Museum/317714056516</a> |
| <b>Discovery Channel Global Education</b> | <a href="http://www.facebook.com/DCGEP">http://www.facebook.com/DCGEP</a>                                                     |
| <b>Scholastic Teachers</b>                | <a href="http://www.facebook.com/ScholasticTeachers">http://www.facebook.com/ScholasticTeachers</a>                           |
| <b>Facebook in Education</b>              | <a href="http://www.facebook.com/education">http://www.facebook.com/education</a>                                             |

# EMBRACE ITUNES

- Applicationists (apps) create them or at least tell your students

Submit Podcasts to  
the iTunes Directory



## iPhone Apps [See All >](#)



**Khan Academy: Biolo...**  
Education  
Released Mar 19, 2010

FREE



**College Biology, Bioc...**  
Education  
Updated Oct 23, 2012

+ FREE



**BiolQ: Biology Picture G...**  
Education  
Updated Feb 22, 2013

+ FREE



**Video Biology**  
Education  
Updated Feb 07, 2011

FREE



**Alpha Exam: AP Biol...**  
Education  
Updated Jan 22, 2010

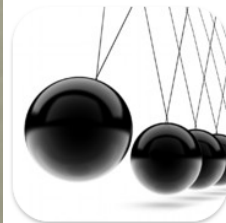
FREE



**Khan Academy: Biology 2**  
Education  
Released Mar 19, 2010

FREE

[App Store](#) > [Games](#) > [IAM Web Services LLC](#)



Free App

This app is designed for both iPhone and iPad

Category: Games  
Updated: Dec 18, 2012

## Newton's Cradle: Physics++

### Description

Newton's Cradle puts physics in your hands. Using a real physics engine built on kinematics and momentum equations, Newton's Cradle: Physics++ delivers a superior physics simulation. ...

[...More](#)

[IAM Web Services LLC Web Site](#) > [Newton's Cradle: Physics++ Support](#) >

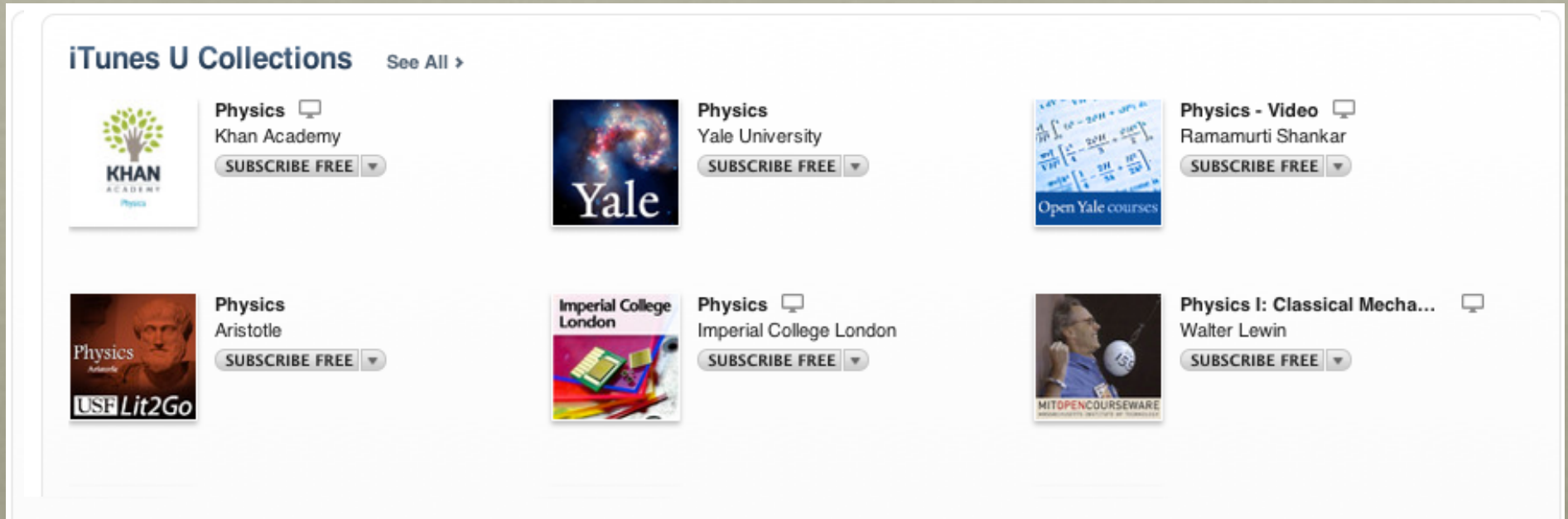
### What's New in Version 1.8

Version 1.8

iPhone 5 support.

# EMBRACE ITUNES

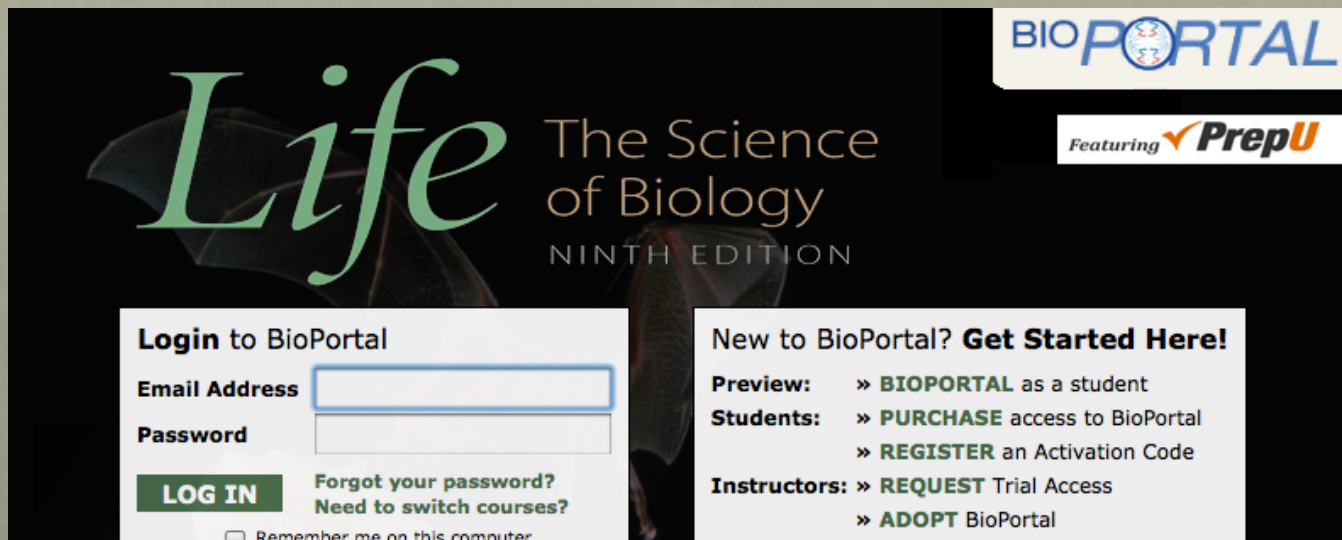
- iTunesU – University tutorial with participant area focus



\* Tutorial

# THERE IS HELP

- Your required text has resources too!!!
- Ask the editor representative
  - Quizzes, news feeds, PowerPoints, test banks, etc.



The screenshot shows the BioPortal interface for the textbook 'Life: The Science of Biology, Ninth Edition'. The page features the book's title in a large green font and the BioPortal logo in the top right corner. Below the title, there is a login section with fields for 'Email Address' and 'Password', a 'LOG IN' button, and links for 'Forgot your password?' and 'Need to switch courses?'. To the right of the login section, there is a 'New to BioPortal? Get Started Here!' section with links for 'Preview', 'Students' (including 'PURCHASE', 'REGISTER', and 'ADOPT'), and 'Instructors' (including 'REQUEST').

**Life** The Science of Biology  
NINTH EDITION

**BIO**PORTAL

Featuring **PrepU**

**Login to BioPortal**

Email Address

Password

**LOG IN** [Forgot your password?](#) [Need to switch courses?](#)

☐ Remember me on this computer

**New to BioPortal? Get Started Here!**

**Preview:** » **BIO**PORTAL as a student

**Students:** » **PURCHASE** access to BioPortal  
» **REGISTER** an Activation Code

**Instructors:** » **REQUEST** Trial Access  
» **ADOPT** BioPortal

\* Tutorial

# QUIZZIFY

## Bees pollinate better when they're buzzing caffeine



31 people recommend this. Be the first of your friends.

By Agence France-Presse

Thursday, March 7, 2013 15:32 EDT



10



### New Quiz

Quiz Title

Select class

Available date:

03/11/2013

Due date:

e.g. 01/10/12

Save

suicide

- ▶ Two men lose their legs in fire outside strip
- ▶ Close friend of Mandela fading
- ▶ Falklands set to reaffirm referendum vote

# QUIZZIFY



bio001  
Bees and Caffeine



Assign quiz

Try



## You're ready to quizzify this web page!

Highlight any text of the web page to create a question anchored to that item. Simply highlight and write!

Continue



Turns out that bees, too, get a buzz off caffeine. It boosts their memory and makes them better pollinators, according to a study published Thursday in the journal Science.

# QUIZZIFY



Turns out that bees, too, get a buzz off caffeine. It boosts their ability to be better pollinators, according to a study published Thursday in the journal *Science*.

Honeybees fed a sugar solution containing caffeine, which exists in coffee and citrus flowers, were three times more likely to remember the location of those feeding on just sugar.

"Remembering floral traits is difficult for bees to perform at a distance from flower to flower and we have found that caffeine helps the bees remember where they are," wrote Professor Geraldine Wright in the study.

"In turn, bees that have fed on caffeine-laced nectar are laden with pollen. Bees search for other coffee plants to find more nectar, leading to better pollination," the Newcastle University neuroethologist said.

## New Question

How does caffeine contribute to pollination?

- ☐ The bees are better at picking up pollen
- ☐ The bees are more attracted to the morphology of any plant they have visited before
- ☐ The bees remember where their hive is located
- ☒ They are more likely to search for caffeine-laced nectar

Points: 1

Save

Cancel

Delete

# MORE

- Clicker use in classroom
- Blog Spots
- Online journals
- Prezi (interactive PowerPoint)
- other tools

