

# The iPad in **EDUCATION**





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# Objectives

- Become familiar with the iPad and its features.
- Identify ways to utilize the iPad in all levels of technology integration.
- Identify apps for education.
- Understand the value of the iPad in education and how it can create 21<sup>st</sup> century learning environments.

# Tiers of Technology Integration

- **Tier 1: Teacher Focus on Productivity**

*Focuses on the teacher using technology to get their job done.*

- **Tier 2: Student Productivity**

*Student productivity use of technology.*

- **Tier 3: Powerful, Student-Centered 21st Century Learning Environment**

*Promotes students to be actively engaged in using technology in individual and collaborative learning activities.*

# True Technology Integration: Tier 1

## Tier 1: Teacher Focus on Productivity

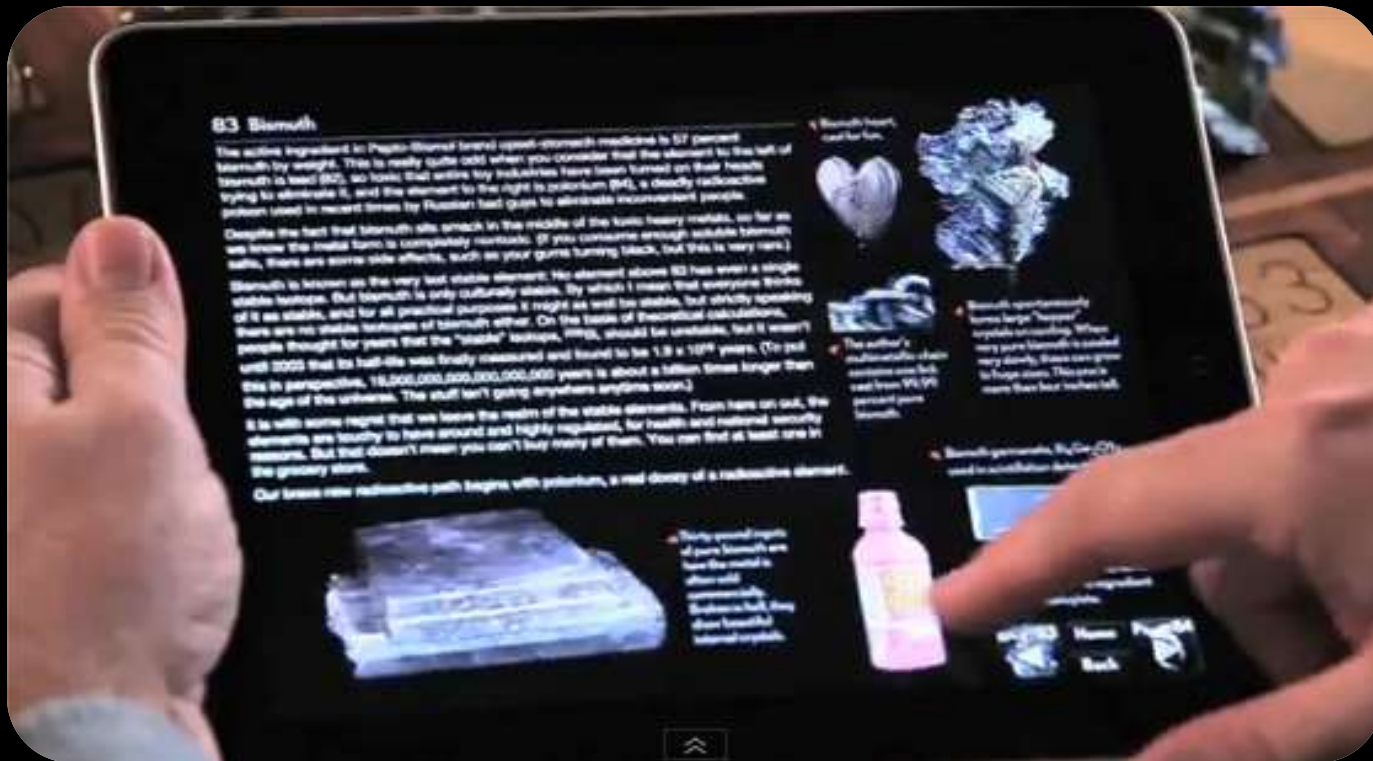
*Focuses on the teacher using technology to get their job done.*



# True Technology Integration: Tier 2

## Tier 2: Student Productivity

*Student productivity use of technology.*



## Discovering Ancient Pompeii with iPad

In Pompeii — the longest continuously excavated archaeological site in the world — iPad is revolutionizing how scientists work in the field. Rather than recording notes and sketches on paper, researchers at the site use iPad and apps to capture invaluable historical data faster, more easily, and with far better accuracy.



Field researcher Kevin Dicus records his observations of well construction in a database using FMTouch. With no electric power in the trenches, the long battery life of iPad makes it perfect for data entry during an eight-hour workday.





Researcher Dr. Eric Poehler and Dr. Steven Ellis browse excavation photos using the Photos app. Researchers photograph almost everything and download the images to a central computer twice a day to share with the team.



Aimée Scorziello and Amanda Pavlick use reference materials on iPad to examine wall construction techniques.

# True Technology Integration: Tier 3

## Tier 3: Powerful, Student-Centered 21st Century Learning Environment

*Promotes students to be actively engaged in using technology in individual and collaborative learning activities.*





Dr. Archer Martin uses OmniGraffle to establish the chronological context of pottery.



The team examines different wall construction patterns that were created by tracing photos in iDraw and importing the images into Pages for further annotation.



Researchers compare wall annotations in iDraw. Says Ellis, "We need to simply draw a lot of what we're recording, because as we dig down through these layers we are essentially destroying the site. To destroy it is to understand it."

# Tiers of Technology Integration: Activity

- **Create a Notes Document**

*Title: True Technology Integration: 3 Tiers*

- **List all three tiers on a separate line**

*Add a space between them*

- **Identify the apps, sites, resources under each tier as applicable**

*How would this app, resource or site be used at this level?*



# The Elements

- 1-The Elements iPad app
- 2-\$13.99
- 3-Highly interactive
- 4-Wolfram Alpha

The periodic table of elements comes to life when you touch your finger against any element.

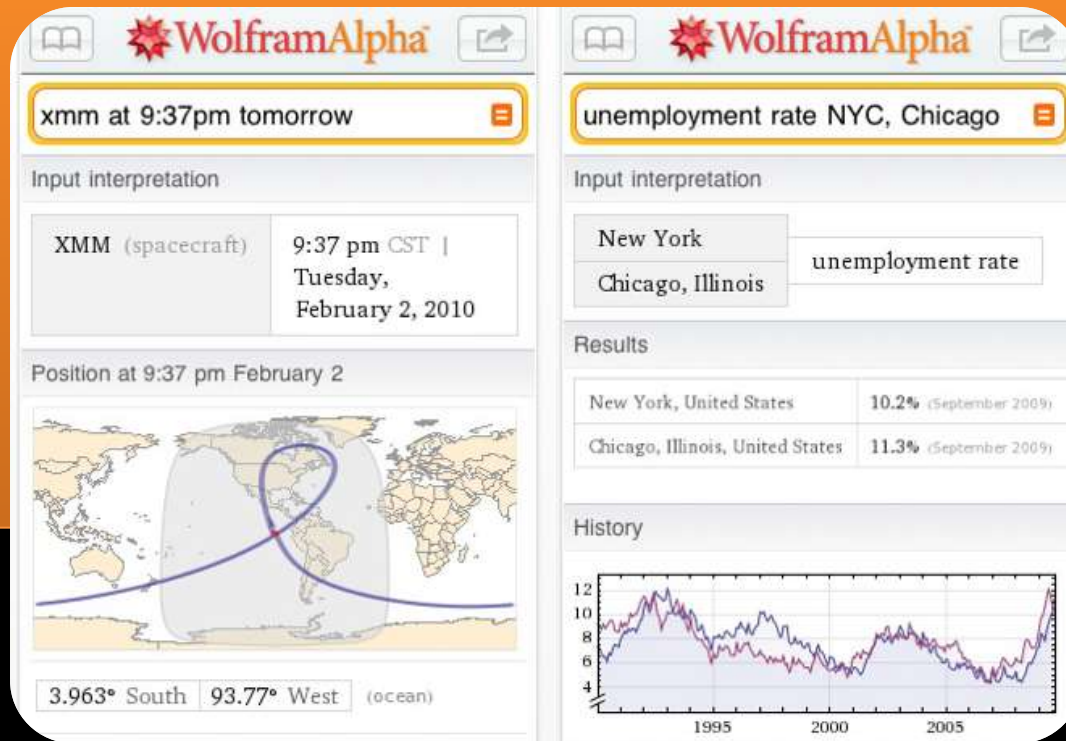




# WolframAlpha



- Knowledge database
  - designed for both iPhone and iPad
  - Results cached
- Cost: \$1.99




**Left Screenshot: XMM at 9:37pm tomorrow**

Input interpretation:

XMM (spacecraft)	9:37 pm CST   Tuesday, February 2, 2010
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Position at 9:37 pm February 2



3.963° South 93.77° West (ocean)

**Right Screenshot: unemployment rate NYC, Chicago**

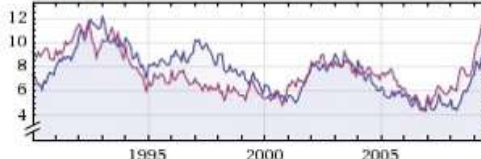
Input interpretation:

New York	unemployment rate
Chicago, Illinois	

Results

New York, United States	10.2% (September 2009)
Chicago, Illinois, United States	11.3% (September 2009)

History



12  
10  
8  
6  
4

1995 2000 2005

# Questions

