

Teaching with Technology



Tablet PC Applications in
Teaching General Education

What is a Tablet PC?



- Combination notebook PC and advanced PDA
- Key capabilities
 - digital inking and text recognition
 - advanced software to enhance performance
- Full PC features available
 - wireless, CD/DVD, peripheral compatibility
 - HD, processor speed, extended battery life

Background



- Inking technology not new
- Tablets introduced in late '90s
- Accelerated marketing/use since 2002-03
- Currently 16 tablet manufacturers
- ┌ Embraced in healthcare, marketing (RE and insurance) and manufacturing

Limited Academic Use to Date



- Cost (school or individual expense)
 - \$1300-\$1500 w/bulk pricing at Northwest
- Lack of exposure
 - New product and not aggressively marketed to academia to date
- ┌ Wedded to practice
- ┌ Technophobia
 - acute due to workload and limited training

Academic Users



- GIS programs (Vasser and others)
 - In-class and field work (data gathering)
- Kansas State pilot program
 - Tegrity presentations in Ag and CS programs
 - students take notes on school-issued tablets
- Purdue – introducing for student use
- MIT and Temple
 - bio and med faculty using to enhance in-class visuals and lectures
- Northwest Missouri
 - began standard issue tablets to faculty in 2004

Uses Outside the Classroom



1 Grading With Inking Function



- Benefits of going paperless
 - ease of collection and retention; rapid feedback
- Issues:
 - » means of collection
 - » adjusting to inking: stylus and vision
- **Illustration** 2006 TLC paper

2 Class Preparation

- Mark-up and enhance presentations
- Snipping tool
 - add graphics/images to any application
 - <http://www.publicdebt.treas.gov/opd/opdpdodt.htm>
- “Print To” for Windows Journal
 - enables marking most documents including PDF
 - demos:
 - » print from the web [14th Amendment - from GPO](#)
 - » how to brief a case [TX v Johnson.jnt](#)

3 Research and Writing



- Portability = easy field research and notes
- Multiple Applications/Tools
 - OneNote, Windows Journal
 - Snipping Tool and Print-To functions
- Editing
 - mark-up and OCR capabilities ([2006 TLC paper](#))

4 Administrative and Miscellaneous



- Quick Tools
 - Sticky Notes
 - Ink Desktop
- Other Note-Taking Tools
 - Windows Journal
 - Microsoft OneNote
 - Agilix GoBinder

Windows Journal: Note Taking (from 2006 TLC)

Resources Mini-session_jnt - Windows Journal

File Edit View Insert Actions Tools Help

Two Pages

Mini-Session
-----American--Government--Teaching--Resources-----
Note Title 2/19/2006

Meg Steele - CSPAN
Phil Duncan - Center on Congress

CSPAN

- can download & post if website is closed (i.e. eCompanion site)
- online archives: ~ 1 mo., but can contact her directly if need help and/or permission
- fellows & grants page: can get videos from online store, if using in class, can request & fill out grant form (to waive fees)
- Register on Educator Resource page
 - CSPAN Daily e-mail list, then use to build video library
 - off homepage

★ Media Bias project (share w/ Bob & Brian): "watch the clip - Students & Leaders program - extensive speaker index (John Lewis was present) you decide if Fox or CNN is biased (or ABC/NBC)" - or "you write the report" - then compare to Fox or ...

Center on Congress

- Lee Hamilton's book - his albums: can use for student project (read Edment)
- eLearning Modules - a bit focused for HS level, but good base info @ intro level
- pod casts
- "Adventure of the American Mind" project - coming later in '06
- ★ will have time line resource - use w/ idea from Tech in Classroom (HTTPs time line idea)

Ideas

★ Blog Project: assign range of blogs

- non-partisan: read, analyze & agree/disagree
- partisan exp.
- partisan oem: comment x times

★ alter projects: 2 exercises instead of 2nd midterm? or reform at midterms to have SAS on site by essay on outline?

1-2 exercises/papers from range of topics

- 1- blog project
- 2- Cong simulation + paper
- 3- media bias project
- 4- America essay
- 5- civ. lib. issue (i.e. cumat. paper project)
- 6- party/ideology resource/paper

OR: one of these instead of essay on one test (choice in advance) or SA or big essay on test

1/2

Quick OCR

State-Building Simulation (ethnic conflict setting)

contrast to Michelle - selected specific nation (Afgh.)

b/c goal of appreciating objectives & concerns of the groups

Q: Is the initial proposal driven by a democratic model?

How does this get imposed? Do the groups have non-U.S. democratic/republican model as alternative?

"get dem. constitution or civil war" is pretty restrictive

Q - relationship b/w "international pressure" & ^{set of alternatives}
instructors/supervisors

- alternatives for Islamic countries?

Quick OCR

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Get Dem constitution or civil war " is pretty restrictive

Classroom Usage



1 Whiteboard



- Save and distribute “board notes” from class
- Multiple options:
 - Windows Journal
 - Word
 - Powerpoint
 - Presenter
 - Ink Desktop

Types of Presidential Power

- ① ~~Commander-in-chief~~
Formal / Constitutional
- ② Implied / inherent
- ③ Delegated - from Congress (statutes)
- ④ Persuasion

2 “Interactive” Presentations

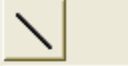
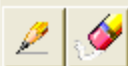


- ┌ PowerPoint (e.g.) can be . . .
 - static, encourages passivity and inactivity
 - Edward Tufte: “explosion in useless data stupidly displayed”
 - students like it, but evidence is mixed re: value
- ┌ Inking promotes **active learning**
 - » notes, highlights, explain charts and visuals
 - » blank slides for recording student input
- ┌ Classroom Presenter
 - Slides with Whiteboard and editing space

3 Use with Classroom Software



- Student Response System (SRS)
 - whiteboard for spontaneous questions
 - written commentary/explanations
- Diploma (textbook software)
 - quiz/discussion questions



Clear

Load Image

Reload

Answers



Ⓐ separation of church & state

Ⓑ speech

Ⓒ association

Ⓓ all of the above

Start End \pm 1:00 >

Grid



Chalkboard Question Engage

0

39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54

4 General Ease of Use



- Portable and versatile
- Wireless
- Stylus > mouse or touchpad in class
- Screen and projector issues
 - resolution, orientation
- Stylus
 - sensitivity, calibration

5 Non-Tablet Tools



- CD/DVD: play and record
- Wireless
- High-end processor, HD, memory, graphics, sound, screen, battery, etc.
- Convertible tablet = full notebook capability

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