

## Practical, Portable Handhelds: Computing Tools for All Students

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## palmOne Educational Relevance?

### Palm™ handheld computer



~~Palm Pilot~~

~~PDA~~



### Why handhelds makes sense

Challenges of the desktop computer = Benefits of the handheld computer!

- Cost
- Size  $S^2$
- Equity
- Simplicity

- Cost
- Size  $E^2$
- Equity
- Simplicity

$S^2$  = Somepeople • Someplaces       $E^2$  = Everyone • Everywhere



### Beyond the PDA to the handheld computer...

Hardware and software that extend the power of your handheld computer!

- Word processing.....
- Spreadsheet.....
- Database.....
- Presentation.....
- Digital photography.....
- Internet connectivity.....
- Printing.....
- Calculators.....
- Drawing & Painting.....
- Scientific probes.....
- Stories, texts, authoring.....
- eMail & telephony.....
- Assessment.....
- Palm keyboard, WordSmith,
- Sheet to Go, QuickSheet
- MobileDB, HanDBase
- MARGI Presenter to Go
- Veo Photo Traveler, Zire™ 72
- PicoBlue, WiFi (802.11), Treo™ 600
- PrintBoy, TealPrint
- ImagiMath, powerOne Graph
- TealPaint, Diddlebug, Sketchy
- ImagiProbe, PASCO, Vernier
- Palm Reader, Palm eBook Studio
- Outlook, VersaMail, Treo™ 600
- Making the Grade, mClass:Reading



### Education websites to remember...

- palmOne Education [www.palmOne.com/us/education](http://www.palmOne.com/us/education)
- Handheld research [www.palmgrants.sri.com](http://www.palmgrants.sri.com)
- Education integration [www.rainbowtech.org](http://www.rainbowtech.org)
- Software reviews [www.learningathand.com](http://www.learningathand.com)
- Education store [educationstore.palmOne.com](http://educationstore.palmOne.com)
- Ed Purchase Program [www.palmOne.com/us/promotions](http://www.palmOne.com/us/promotions)
- Software [www.palmgear.com](http://www.palmgear.com)
- [www.handango.com](http://www.handango.com)
- [www.pdaed.com](http://www.pdaed.com)
- [www.tucows.com](http://www.tucows.com)

### Adaptable Handhelds

- Voice Memo
  - Playback for reading
  - Notes
  - Assistive devices



## Adaptable Handhelds

- Digital Camera Included
- Micro Innovations and Veo Add-on
- Used in:
  - Science
  - Classroom social situations
  - Current events
  - Digital storytelling



## Adaptable Handhelds

- SanDisk or MultiMedia Card
  - Flash/Regular/BackUp
  - Create your own modules:
    - Hold assignments
    - Used for centers
    - Store unit activities



## Adaptable Handhelds

- Module applications (plug-n-play)
  - ImagiProbe
  - Magellan GPS
- Pre-loaded cards
  - Database
  - Graphing Calculator
  - In-class Presentations

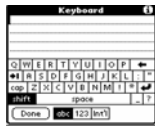


## Adaptable Handhelds

- Writing process and the Handheld
- Different types of keyboards



## Six+ ways to enter text



On-screen keyboard



Graffiti®



Synchronize



Infrared beaming



Wireless



External keyboard

## Adaptable Handhelds

- Software applications
  - T-observe (teacher observations)
  - mClass:Reading (running records)
  - Documents to Go: (MS Word, PPT, Excel)
  - QuickOffice (Word, Excel, PPT, Chart, & Photo)
  - Wordsmith/Thesaurus
  - HandBase (conduits for Access and FileMaker)
  - Quizzler for Testing

Handhelds Support These Processes

Getting "handy" in the Classroom  
Practical Applications for Handhelds in the Classroom  
<http://www.figg.com/handy4class>

- Observe Predict Record
- Analyze Compare Draw Conclusions
- Present Findings
- Prewriting Brainstorming Listing
- Investigate Research Collect Information
- Revising Peer Review Editing

## Mini-lessons Using Activity Structures

What is an activity structure?

- Framework of an activity
- Can accommodate any content
- Can be adjusted for any grade level
- Building blocks of a lesson

## Mini-lessons Using Activity Structures

Why are activity structures an important concept?

- Promote seamless integration
- Just in Time Training (Small bits of technology more easily absorbed)

Writing is for me!

## Observe, Predict, Record

- Journals
  - Recording entries
  - Recording predictions
  - Documenting changes over time
- Diagrams
  - Drawing
  - Sequencing
- Digital Records

## Prewriting, Brainstorming, Listing

- Writer's Diary
  - Record daily reflections, story components
  - Construct event/story maps
  - Word play (Thesaurus)
- Sketching
  - Doodles
  - Animations
- Listing with Memo Pad or To List

## Revising, Peer Review, Editing

- Revising Tools
  - Thesaurus
  - Dictionary
- Peer Review with Beaming
- Editing Tools
  - Cut, copy, paste
  - Move sections

<http://www.globalclassroom.org/2004/aiwanandrews/palms212.html>

## Investigate, Research, Collect Background Information



- Background Reading Materials
  - eBooks
  - Dictionary
  - Thesaurus
  - Databases



## Investigate, Research, Collect Background Information



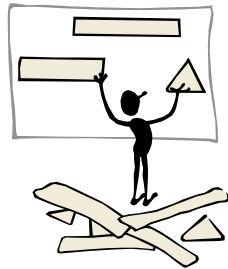
- Data collection
  - Internet research
    - Virtual Field Trip
    - "Mini" field guide linklists
  - Portable field notes
    - Probes:
      - Temperature
      - Turbidity
      - Acidity
    - <http://www.aprejean.com/webquest/index.htm>
      - ecologists



## Analyze/Compare Data & Draw Conclusions



- Concept Mapping
- [Digital Collections](#)
- Insect ID Field Guide



## Present Findings



- Presenter-To-Go
  - [Characteristics Books](#)
  - [Predictable Books](#)
  - Photo Sequences
  - Constructing eBooks



## Full Descriptions of Activity Structures



Available at:

<http://www.figg.com/handy4class/>