Power in the Palm® of Your Hand

If only it was this easy...

Classroom Activities Using the Palm® OS Handheld

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Some activities included are from:


Presentation includes information from:


Online support page http://kathyschrock.net/power/
Presentation includes information from:


**Order of Operations**
- Impact of technology in education
- Teacher feedback
- Overview of handheld computers
- Palm® OS devices and brands
- POWER activities to support teaching and learning

**Using Handheld Technology**
- SEIRTEC Newsletter
- Volume 5, Number 2, 2002

**The Impact of Technology**
- Interactive and enjoyable
- Learner-controlled and customizable
- Investigate and answer questions
- Tools to share knowledge
- Helps students find information
- Helps students evaluate information
- Increases communication skills

**The Real Story**
- Research results varied
- One-to-one computing
- Expensive for hardware
- Access, access, access is missing
- Handheld computers fit the bill!

**Administrative Uses**
- Data management and tracking
  - Grading
  - Attendance
  - Discipline
  - Student information
  - Student schedules
  - Memos
  - Curriculum and district documents

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Annette Lamb

- What can technology do that we cannot do without technology?
- How does technology fit into the learning experience?
- What does it take to make the use of technology worth the time and effort?

http://www.eduscapes.com/sessions/beam/

Teacher Feedback

- Equitable access
- Ease of integration
- Increased motivation
- Collaboration
- Individualization
- Productive lab time
- Easier revision
- Work can go home
- Empowered learners and teachers

Quick Overview

- Palm® OS and Windows PocketPC®
- Palm® OS devices
  - bigger price range span
  - work equally as well with PCs and Macs
  - longer battery life
  - more applications available

Brands of Palm® OS devices

- Palm
- Sony
- Garmin
- Alphasmart

Three little things...

- Expandability
- Color vs. monochrome
- Keyboard/thumb-board
POWER in the palm of your hand

Palm Skills Activities
Organizational Activities
Web Activities
Educational Activities
Reference Activities

Palm Skills Activities

Paper Graffiti
- Paper to Palm®
- Keyboarding and WP skills

Graffiti Practice Sheet
http://kathyschrock.net/power/graffiti.pdf
Graffiti Font (Mac/PC)
http://palm.bemho.com/

Scavenger Hunt
- Use Memo Pad to create a story
  - use a word that repeats as an entire word and also as a word fragment (i.e. and, sand, band)
- Beam the story to each other
- Use FIND to locate the word
- Brainstorm other roots and FIND
Scavenger Hunt

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Scavenger Hunt sample

Spelling Words Baton Race

- Put words in Memo Pad
- Have them erase this list
- Divide the class into teams
- Student 1 opens & names memo
- Have student 1 write one word and beam it to student 2 who writes word 2 and beams it to student 3...
- Beam final list to teacher

Making Emoticons :-)

- Brainstorm a list of emoticons
- Divide the class into three groups
  - Memo Pad and Graffiti
  - Memo Pad and on-screen keyboard
  - Sketchy
- Beam to each other for identification
- Greeting cards summary

Making Emoticons samples

Organizational Activities
ORGANIZATIONAL ACTIVITIES

- Homework Memos
- Homework Categories
- Big Events with Big Clock
- Emergency!
- You’ve Got Homework!

Homework Memos

- Open a new memo in Memo Pad
- Use the Date Due-Class as opening
  - i.e. 11/04/03 History
- Enter assignment data and DONE
- Enter all assignments
- Sort alphabetically

Homework Categories

- Open Memo Pad and hit arrow
- Choose EDIT CATEGORIES
- Choose the NEW button
- Create organizational categories
- Open each memo and file it
- While category is open, tap the MENU and BEAM MEMO

Homework Categories

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Big Events with Big Clock™

- Have students find a place and the time difference from their home
- Choose WORLD button
- Use MENU to go to SETTINGS-WORLD TIMES
- Enter city and number of hours
- Call on students randomly

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**Big Clock samples**

**Emergency**
- Students gather emergency info
  - Poison Control Center
  - Parent’s work number
  - Medical numbers
  - Neighbors
- Open the Address Book
  - Add category: Emergency
  - Add contacts and file in category

**You’ve Got Homework!**
- **Due Yesterday™**
- Assignments and grades
  - Set up a class
  - Enter homework
  - Beam homework
  - Export to Date Book and To Do List

**Web Activities**
- HTML and You
- Web Access
  - Blazer
  - Email
  - ICQ/AIM
  - FlingIt!
HTML and You

- Memo Pad or Freewrite™
- Create an HTML template
- Create different templates and beam

Web Access

- Palm OS 5
- Wireless and Internet capabilities

Web Access

- E-mail
- Must have an account first
- Collaborative project

Web Access

- ICQ
- Must have an account first
- Collaborative project

Web Access

- FlingIt!™
- Desktop and handheld app
- Captures site and move them to the handheld

Educational Activities
**EDUCATIONAL ACTIVITIES**
- Journaling
- Book Logs
- Moonstruck
- Learning by Heart
- Patriots
- Mapping
- Beam My Book!
- Cells for You
- Read Aloud
- Roman Numerals
- Match Who?
- Animation Math
- It's in the Stars
- Flash™ Stories
- KWL
- Quizzler
- Tessellation
- CityZen

**Journaling**
- Many different types of journaling
- Use journaling graphic organizers
- Use FreeWrite™ and beaming

**Book Logs**
- Databases of favorite books
- Books are rated and shared
- BooksLog™
  - Title
  - Author
  - Genre
  - Rate
  - Notes
- Logs are beamed to one another
- Booktalks and “selective beaming”

**Learning by Heart**
- Recitation vs. presentation
- ByHeart™ reads Memo Pad memos
- Quiz mode tests students
- Use a Venn diagram to brainstorm presentation vs. recitation

**Patriots**
- Read patriotic quotations via the Palm Reader application and PalmPatriot e-book
- Reflect on quotations using the FreeWrite™ application
- Beam thoughts to others

**Patriots samples**
Mapping

- Use concept maps to plan, organize, summarize, brainstorm and review information.
- Have students summarize parts of the chapter and beam their maps to each other to share their thoughts.

Mapping samples

- PicoMap
- MindMapper

Beam My Book!

- Cooperative writing
- "Beam sync"
- All receivers get all updates
- "Experts share" jigsaw
  - Groups of students number off 1-4
  - All like numbered students get together
  - These groups learn specific content and bring it back to their own group

BeamBooks sample

Cells for You

- Spreadsheets for data
  - Collection of "favorites"
  - Grades
  - Weather and science averages
- Spreadsheet for text
  - Rubrics
  - Bibliographic citations
Cells samples

Roman Numerals
- Use Memo Pad to write Roman numerals
- Beam to each other
- Write corresponding number
- Use Converter™ to convert numbers to Roman numerals and back again

Roman Numerals samples

Match Who?
- MatchWho™ creates portraits
- Various features are selectable
- Activity
  - Create a portrait, name, and save
  - Share with partner
  - Write a descriptive paragraph
  - Share another for a longer time
  - Brainstorm methods used

Match Who samples

Funny Faces samples
Animation Math

- Sketchy™
  - Drawing tool
  - Animation properties

- Animated Math Problem
  - Create cells of the problem
  - Animate the problem
  - Play the animation

Hey, what’s your sign?

- Determine astrological sign
- Include the common symbol
- Use SkyChart™ to locate “their” constellation (find at night?)
- Have “like sign” students research their sign’s myth
- Math spreadsheet and graph

Flash™ Stories

- Make animated stories using Macromedia Flash™ on the computer
- Using Kinoma Producer, convert the Flash movies to PDB files
- Using Kinoma Player, students can beam and share their movies
- Students write short stories to go along with all the movies.
- Create instructional movies.
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**KWL**
- **K** - Stands for helping students recall what they **KNOW** about the subject.
- **W** - Stands for helping students determine what they **WANT** to learn.
- **L** - Stands for helping students identify what they **LEARN** as they read.

**KWL sample (iKWL)**

**Quizzler**
- Formative assessment
- Multiple choice

**Tessellation**
- Pattern creation
- Regular and irregular polygons

**CityZen**
- World map
- Includes a database of country, city, lake and ocean names
- Zoom in and out
- Measure distances
- Test your knowledge

**CityZen sample screens**
Reference Activities

- Business Card Exchange
- Handheld Dictionary
- Ready to Convert?
- Periodic Table of the Elements

Business Card Exchange

- Open Address Book and choose NEW
- Enter personal information
- Enter birthdate
  - Menu, Options, Rename Custom Fields
  - Add birthdate to field (mm/dd/yy)
- Beam business card
  - Menu, Select Business Card
  - Menu, Beam Business Card

Handheld Dictionary

- NoahLite™ handheld dictionary
- Keep it close at hand
- Lesson plan about Noah Webster
  - http://www.education-world.com/a_lesson/lesson027.shtml

Ready to Convert?

- Converter™
  - conversions in area, density, length, temperature, volume and weight
- Converting Shoe Size
  - Shoeboxes in shoe store
  - Conversions and travel

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Periodic Table

- ChemTable™
  - information about each element

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Presentation includes information from:


101 Great Educational Uses

- Administrative
  - Keep your schedule
  - Track student progress on specific skills
  - Conduct authentic assessment
  - Use a calculator (even a graphing calculator)
  - Instantly access student information, such as schedules, demographics, or parent contacts
  - Organize your reading lists
  - Take notes at a meeting or in a class
  - Record and tabulate grades
  - Track computer hardware and software inventory
  - Access a database of curriculum standards
  - Evaluate teacher performance and record observation notes

101 Great Educational Uses

- Communication and collaboration
  - Send an email message
  - Collaborate on a graphic organizer
  - Make a presentation
  - Distribute school activity information to students
  - Exchange information with a colleague
  - Share a downloaded Web page with someone
  - Send assignment information home to parents
  - Have students turn in an assignment electronically
  - Get parents' sign-offs
  - Transfer a file from your PC for instant access
  - Write an e-book and share it with others
  - Send and receive instant messages
  - Conduct group writing activities
  - Record voice notes
  - Access online educational events and news

101 Great Educational Uses

- Teaching and learning
  - Take and store digital photos for a project
  - Make a spreadsheet
  - Draw a picture
  - Make a concept map summarizing a chapter
  - Form, visualize, and solve equations
  - Keep track of your class schedules, assignments, and grades
  - Record observations on a field trip
  - Read an e-book
  - Study and compose music
  - Graph data
  - View and use maps

101 Great Educational Uses

- Teaching and learning
  - Increase content accessibility for those with disabilities
  - Program your own handheld application
  - Look up a word in a dictionary
  - Use flashcards
  - Use a tutorial for self-study
  - Take notes and write a research paper
  - Take notes in class
  - Practice handwriting
  - Study a foreign language
  - Listen to historic speeches
  - Take part in a collaborative simulation
  - Conduct research on the Web

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101 Great Educational Uses
101 Great Educational Uses

- Teaching and learning
  - Make a timeline
  - Look up a word in a thesaurus
  - Create an outline
  - Study for a test
  - Keep a journal
  - Access writing prompts and editing checklists
  - Learn about concepts in measurement
  - Practice multiplication tables
  - Access the periodic table
  - Manage a collaborative project
  - Make a photo album
  - Read about the latest current events
  - Build vocabulary through word games
  - Have classes create their own mobile information channels
  - Read historical primary source documents

TechDis PDA Project

http://www.techdis.ac.uk/PDA/

This project examines the accessibility and usability of Personal Digital Assistants within an educational setting.

- Usability of a PDA as Assistive Technology
- Accessibility of the PDA to those with a functional disability

"This handheld computer is very useful for teaching. It displays my lesson plan, calendar, key files, and an extensive menu of pop-downs for teachers and classroom clerks."

Online support page

http://kathyschrock.net/power/

(Presentation last updated: 11/5/03)