

Technology Applied to Instruction

Integrating Technology into 21st Century Classrooms

Educ 572 * Unit 3 Lecture

Print Out the Study Guide PP for taking notes!
Use Pause & Play along with Table of Contents!

Software Support Tools (I)

- What are Software Support Tools?
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- Instructional Materials generators...
 - Tests, quizzes, study guides, homework...
- Data Collection & Analysis tools...
 - Graphic Calculators: Graph & Analyze...
- Graphic & Image Edit/Creation Tools...
 - Adobe PS, MS Draw/Art, [MS Paint](#)...
- Valuable assistance for Teaching and Learning!

Software Support Tools (II)

- What are Software Support Tools?
-
- Planning & Organizing Tools... [Inspiration SW!](#)
 - Visualize, organize, and communicate...
- Research & Reference Tools...
 - Online Dictionary, Encyclopedia, Atlas...
- Specific Content-Area Tools...
 - Music, Graphic Design, Special Labs...
- Excellent assistance for Teaching and Learning!

Software Support Tools (III)

- **21st Century Software Support Tools!**
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- World Wide Investigations of Planet Earth...
- Google Earth, Virtual Earth, GIS/GPS...
- Virtual Reality experience for K-16 classes...
- Online Course Provider environment...
- Virtual Reality with **large screen TVs**...
- Games, Sports, Outdoors, Indoors...
- Unique assistance for Teaching and Learning!

MM/HM Software

- **What is Multimedia or Hypermedia?**
- Multimedia: text, still images, animation, audio video, and **non-interactive** formats.
- Hypermedia: hypertext text, stills, animation, audio, video, **interactive** formats...
- Hypercard (Mac), Hyperstudio (Dual-Platform),
- Recent Developments in Hypermedia has caused all Floppies, CD/DVDs, On/Off Online...
- Emergence of **Flash Drives** for storage...

Hypermedia Products

- What are MM/HM software products?
- Many commercial Hypermedia SW Packages...
- Instructional Software: DP, T, S, G, PS, etc...
- Web Enhanced Study Guides (Handouts)...
- Reference & Resource Materials... **Interaction**...
- Development/Supplemental/Enrichment software...
- Adobe Flash, Macromedia, Design Software...
- **Integration MM/HM SW** challenges **Digital Kids**...

MM/HM Authoring

- Most common MM/HM Authoring in Education?
- Web Page & Web Site creations...
- Common MM & HM Authoring SW for K-16...
- Dreamweaver, [SeaMonkey](#), MS Word, HTML, ...
- [Do most teachers](#) really have time to do it...
- Hypermedia Authoring takes a lot time... ☺
- Authoring Skills “Pay your Dues”... [Trial & Error...](#)
- [Integration MM/HM SW](#) challenge [Digital Kids...](#)

Major MM/HM SW

- [Presentation Software...](#)
- PowerPoint & Slideshows in & out of classes...
- [Video Software](#) Authoring Tools...
- Moviemaker & QuickTime in & out of classes...
- [Hypermedia](#) Software...
- HyperCard & HyperStudio... Creation process...
- [Virtual Reality](#) Software...
- Immersion of VR into the classroom... Enough?

Conclusion Unit 3

- Summary of Beyond the Basics: SW Tools!
- Material Generators... Plan, Reference, Content...
- 21st Century: VR, GPS/GIS, Online Providers...
- Summary of Multimedia & Hypermedia
- Differences between MM & HM is interactivity!
- Software, Products, Authoring, Basic Types...

[@ Pause & Play along with Table of Contents @](#)
[Lecture, Textbook, Investigations, Case Studies, TDs...](#)
