Multimedia Development

60 Inservice Points | Component No. 3 003 002

General Objective

Be introduced to multimedia and the use of equipment and software for multimedia production; author multimedia presentations incorporating computers, CD-ROM, and videodiscs using appropriate tools.

Specific Objectives

1. Converse using common terminology related to multimedia.
2. Identify current trends in multimedia.
3. Identify skills necessary to use a video still-image.
4. Identify parts of a laser disk player and software and its interface with a monitor.
5. Identify and explain the parts of a CD-ROM drive and software and its interface with a computer.
6. Use a laser disc player, remote control, and bar code reader.
7. Re-purpose a laser disc using the remote control.
8. Re-purpose a laser videodisc using bar codes.
9. Apply new knowledge from questions 7 and 8 to the classroom.
10. Develop Level III interactive videodisc programs.
11. Identify current audio technology and its application to multimedia.
12. Compare CD-ROM interactive technology and laser disc technology.
13. Develop presentations incorporating digitized images.
14. Identify current trends in digital video.

Activities

Be involved in multimedia related activities as follows:

Multimedia Productions

1. Working in cooperative learning groups, participants will access the definition/meaning of assigned terms using a CD-ROM based enclyclopedia/dictionary.
2. Learning groups will transfer these definitions/explanations to a shared electronic file.
3. All members of the class will make a personal copy of this file for reference purposes.
4. Participants will review a journal article of their choice dealing with multimedia.
5. Participants will provide a five (5) minute review of the article for the class.

Digital Camera

1. Each participant will use a video camera.
2. Each participant will record on a common VHS tape a narrated segment of the component, identifying themselves via audio at the beginning of the segment.
3. Each participant will use a still image digital camera.
4. Each participant will display digital images on a monitor.
5. Each participant will record on a common disk, a still of their school and school sign using a digital camera.
6. Working as a unit the class will produce a diskette of school images.
7. Each participant will disassemble and reassemble the interface between a laser disc player and monitor.

Laser Disc Technology

1. Working in cooperative learning groups, each participant will have a “hands-on” opportunity to operate a laser disc player, using the remote control and bar code reader.
2. Each participant will post their reaction to this experience (#1) in a common computer database file.
3. Each participant will copy the file to their floppy disk.
4. Working in cooperative learning groups, participants will re-purpose a laser disc of their choosing using the remote control. The product must be suitable for classroom use.
5. Each participant will generate bar codes using a computer and printer.

6. Working in cooperative learning groups, participants will re-purpose a laser disc of their choosing using bar codes. The product must be suitable for classroom use.
7. Each participant will develop a lesson for use in their classroom incorporating a re-purposed laser video-disc.
8. Each participant will teach the lesson.
9. Each participant will record a lesson on VHS tape.

Multimedia Presentations

1. Participants will participate in multimedia presentations using both videodisc and CD-ROM.
2. Participants will rate several Level I programs using class generated criteria.
3. Participants will describe advantages and disadvantages of each system.
4. Participants will "troubleshoot" problem hardware configurations.
5. Participants will become familiar with authoring systems such as HyperCard (Mac), HyperStudio(Mac), Linkway(MS-DOS), PLUS (Mac & MS-DOS Windows), ToolBook (Ms-DOS/Winows) and TutorTech(Apple IIe).
6. Participants will develop a Level III interactive videodisc program.
7. Participants will incorporate audio into Level III interactive laser videodisc presentations.
8. Participants will recognize proper hardware configuration.
9. Participants will develop an interactive program using CD-ROM.
10. Participants will incorporate digitized images into a multimedia presentation.

Evaluation

Participants will

1. Note in an on-line checklist the date and provide documenting eveidence upon completion of Objectives 1-7 of the component.
2. Submit a copy of the lesson plan and any other supporting evidence (e.g. bar codes) wherein the re-purposed laser videodisc was used.
3. Submit a videotape of the lesson utilizing the re-purposed laser videodisc.
4. Develop multimedia presentations using videodiscs, CD-ROM, digital audio, digitized images and digital video.

Manatee County, July 1996