

Technology in Education Boot Camp

60 Inservice Points

Component No. 3 003 001

General Objectives

1. To develop computer literacy.
2. To operate and maintain a Macintosh and Windows computer.
3. To design, install and troubleshoot a local area network.
4. To learn about the internet and its applications.
5. Give knowledge necessary to develop a technology plan.

Specific Objectives

1. Recognize and use computer terminology.
2. Become familiar with all components of a computer.
3. Recognize impact of computer technology on education.
4. Set up a Macintosh and Windows computer.
5. Configure a Macintosh and Windows computer to communicate over a network, and print.
6. Learn ways to manipulate file structures and store information.
7. Learn how to install software, customize the desktop and access programs.
8. Learn to trouble shoot computer applications and hardware.
9. Learn the Open System Interconnection (OSI) Model for Networking.
10. Learn different network protocols.
11. Learn different network topologies.
12. Learn different network hardware.
13. Install a Local Area Network (LAN) between all computers in the classroom.
14. Use network utility program to troubleshoot network.
15. Learn different methods of connecting to Wide Area Networks (WANS).
16. Learn the history of the Internet.
17. Learn different ways to connect to the internet.
18. Learn what hardware is necessary to connect to the internet.
19. Use internet applications.
20. Learn how to use the internet for research and other educational purposes.
21. Use compression programs to unzip and unstuff downloaded files.
22. Learn different types of image formats used on the internet and how to manipulate them.
23. Use a HTML authoring program to create a WEB page.
24. Discuss educationally appropriate hardware and software and their expenses.
25. Learn the format of a technology proposal.

Activities

1. The computer literacy component will rely on lecture and class presentation. The remainder of the class will be hands-on. Each participant will be assigned a Mac and Windows computer which, over the course of the Boot Camp, they will configure to run programs, communicate over a network, and communicate with the internet.
2. Participants will have hands-on use of applications as well as participate in discussion as to the most effective way of teaching applications.
3. Participants will configure both computers and be given activities to be completed to display understanding of operating system and file structure.
4. Demonstration of installation and then hands-on installation of a Local Area Network (LAN).

Evaluation

1. Participants should be able to complete tasks given them and configure their computers. Computerized quizzes will test understanding and retention of material.
2. Participants should gain the ability to get their two computers to communicate over the network.
3. Computerized quizzes and demonstration of knowledge by hands-on activities.
4. Participants should participate in discussions.



5. Each participant will be given the assignment of completing a Master Technology Integration Plan for their school.
6. Participants will complete a Boot Camp evaluation form.

Dan Greenwood, St. Paul's School, June 1996

