

# TECHNOLOGY

LENGTH OF TIME: Integrated as part of other curricular areas throughout the entire school year

GRADE LEVEL: 1

## COURSE STANDARDS:

Students will:

1. Identify ways to use technology at home & school. (PA Academic Std 3.6B. 3.8A, 3.8B; NETS 2)
2. Identify ways to use technology at work & play. (PA Academic Std 3.6B. 3.8A, 3.8B; NETS 2)
3. Demonstrate respect for the work of others. (PA Academic Std 3.6B. 3.8A, 3.8B; NETS 2)
4. Discuss ownership of computer-created work. (PA Academic Std 3.6B. 3.8A, 3.8B; NETS 2)
5. Demonstrate correct care & use of computers. (NETS 2)
6. Recognize that multimedia is use of the computer to present text, graphics, video, animation, and sound in an integrated way. (PA Academic Std 3.7A, 3.7C, 3.7E; NETS 1, 3, 4, 5)
7. Identify word processing software as a tool for writing. (PA Academic Std 3.7A, 3.7C, 3.7E; NETS 1, 3, 4, 5)
8. Identify the Internet as a source of information. (PA Academic Std 3.7A, 3.7C, 3.7E; NETS 5)
9. Identify communication technologies (phone, fax, email, internet) that are used to transmit data and hence enable us to locate information. (PA Academic Std 3.7A, 3.7E; NETS 4, 5)
10. Identify the physical components of a computer system (keyboard, monitor, CPU, mouse, printer). (PA Academic Std 3.7A, 3.7C; NETS 1)
11. Identify the function of physical components of a computer system. (PA Academic Std 3.7A, 3.7C; NETS 1)
12. Identify & discuss fundamental computer terms: start, icon, desktop, menu, toolbar, exit, shut down, quit, and open. (PA Academic Std 3.7A, 3.7C; NETS 1)
13. Place the cursor at a specified location. (PA Academic Std 3.7C; NETS 1)
14. Locate & use letters, numbers, and special keys on a keyboard. (PA Academic Std 3.7C; NETS 1)
15. Know placement of individual letter keys. (PA Academic Std 3.7C; NETS 1)
16. Identify basic word processing terms (file, print, shift key). (PA Academic Std 3.7C; NETS 1)
17. Recognize the benefits of word processing. (PA Academic Std 3.7C; NETS 1, 3)
18. Use word processing to enter text. (PA Academic Std 3.7D; NETS 1, 3)
19. Demonstrate proper keyboarding techniques for upper & lower case letters using shift key. (PA Academic Std 3.7C; NETS 1)
20. Participate in the creation of a class computer presentation. (PA Academic Std 3.7D; NETS 3,4)

## RELATED PA ACADEMIC STANDARDS FOR SCIENCE AND TECHNOLOGY

- 3.6 Technology Education
  - B. Information Technology
- 3.7 Technological Devices
  - A. Tools
  - C. Computer Operations
  - D. Computer Software
  - E. Computer Communication Systems
- 3.8 Science, Technology and Human Endeavors
  - A. Constraints
  - B. Meeting Human Needs

## RELATED NETS (NATIONAL EDUCATIONAL TECHNOLOGY STANDARDS FOR STUDENTS) STANDARDS

- 1. Basic operations and concepts
  - Students demonstrate a sound understanding of the nature and operation of technology systems.
  - Students are proficient in the use of technology.
- 2. Social, ethical, and human issues
  - Students understand the ethical, cultural, and societal issues related to technology.
  - Students practice responsible use of technology systems, information, and software.
  - Students develop positive attitudes toward technology uses that support lifelong learning, collaboration, personal pursuits, and productivity.
- 3. Technology productivity tools
  - Students use technology tools to enhance learning, increase productivity, and promote creativity.
  - Students use productivity tools to collaborate in constructing technology-enhanced models, prepare publications, and produce other creative works.
- 4. Technology communications tools
  - Students use telecommunications to collaborate, publish, and interact with peers, experts, and other audiences.
  - Students use a variety of media and formats to communicate information and ideas effectively to multiple audiences.
- 5. Technology research tools
  - Students use technology to locate, evaluate, and collect information from a variety of sources.
  - Students use technology tools to process data and report results.
  - Students evaluate and select new information resources and technological innovations based on the appropriateness for specific tasks.

## PERFORMANCE ASSESSMENTS:

Students will demonstrate achievement of the standards by:

- 1. Illustrations of ways people use technology (Course Standards 1, 2, 3)
- 2. Showing respect for others work and computer care (Course Standards 4,5)
- 3. Sorting activity to distinguish multimedia vs. non-multimedia (Course Standards 6)



Microsoft Office 2003 Package  
Kidspiration

6. Poster of computer parts

#### METHODS OF ASSISTANCE AND ENRICHMENT:

1. Technology skills are reinforced in all curricular areas, including Specials
2. Students have opportunities to use technology to explore various curricular topics in depth, allowing for differentiation
3. Individualized assistance is available as needed (teachers, teaching assistants, peers)
4. Remedial and enrichment work can be done during computer lab time, during recess or before/after school, and during class time when appropriate

#### PORTFOLIO DEVELOPMENT:

1. Student work demonstrating technology integrations can be saved electronically in student folders

#### METHODS OF EVALUATION:

1. Teacher observation
2. Class participation
3. Group work
4. Completed projects - Technology skills are evaluated as part of integrated projects in curricular areas
5. Oral and visual presentations

#### INTEGRATED ACTIVITIES:

It is expected that as technology skills are integrated into other curricular areas, technology will be used: to reinforce concepts; as a communication tool; in thinking/problem solving; to show application of knowledge; and to enable students to practice and reinforce interpersonal skills.

1. Concepts
  - Demonstrate understanding of computer as an important tool
  - Demonstrate correct care and use of computers
  - Understand the basic ethics and responsibilities of a computer use
2. Communication
  - Describe procedures
  - Use correct terminology
  - Exchange information
  - Present acquired information in a media presentation
3. Thinking/Problem Solving
  - Use computer generated, organized and presented information to draw conclusions, form opinions and make judgments
4. Application of Knowledge
  - Use software, hardware to present, evaluate and communicate
5. Interpersonal Skills
  - Demonstrate the ability to listen and communicate effectively through writing, speaking, and computer generated communications