

~UNIFIED TECHNOLOGY STANDARDS~

TECHNOLOGY OPERATION

- 1.0 Basic Operations and Concepts:** *Students demonstrate a sound understanding of the nature, operation, and use of technology systems.*

TECHNOLOGY ISSUES

- 1.0 Social, Ethical, and Cultural Issues:** *Students use technology to support lifelong learning, collaboration, personal pursuits, and productivity. They understand the societal ethical, and cultural issues related to technology and practice responsible use of technology systems, information, and software.*

TECHNOLOGY CURRICULUM INTEGRATION

- 1.0 Technology Productivity Tools:** *Students use technology tools to enhance learning, increase productivity, and promote creativity.*
- 2.0 Technology Communication Tools:** *Students use a variety of media and formats to collaborate, publish, and interact with peers, experts, and other multiple audiences.*
- 3.0 Technology Research Tools:** *Students will use technology to locate, evaluate, collect, and process information from a variety of sources. They will evaluate and select information resources and technological innovations based on the appropriateness to specific tasks.*
- 4.0 Technology Problem-Solving and Decision-Making Tools:** *Students will use technology in the development of strategies both for solving problems and making informed decisions in the classroom and the real world.*

**TECHNOLOGY OPERATION STRAND
LEVEL Pre-Kindergarten**

1.0 Basic Operations and Concepts - Students demonstrate a sound understanding of the nature, operation, and use of technology systems.

By applying knowledge gained through **teacher modeling**, students in pre-kindergarten are expected to know and apply the following objectives in order to make progress toward meeting the Unifying Standard 1.0 by the end of grade twelve:

1.1 Use keyboard.

- θ Introduced to letter and number keys.
- θ Introduced to proper mouse techniques.

1.3. Use input devices.

- θ Exposed to correct terminology when using input and output devices (e.g., mouse, keyboard, remote control, printer, monitor, and scanner).
- θ Exposed to VCR and tape recorders.

1.4. Access files.

- θ Exposed to properly inserting disks and CD-ROM's.

**TECHNOLOGY ISSUES STRAND
LEVEL Pre-Kindergarten**

1.0 Social, Ethical, and Cultural issues - Students use technology to support lifelong learning, collaboration, personal pursuits, and productivity. They understand the social, ethical, and cultural issues related to technology and practice responsible use of technology systems, information, and software.

By applying knowledge gained through **teacher modeling**, students in pre-kindergarten are expected to know and apply the following objectives in order to make progress toward meeting the Unifying Standard 1.0 by the end of grade twelve:

1.1 Illustrate appropriate behavior.

- θ Introduced to the PUSD Acceptable Use Agreement.
- θ Introduced to issues regarding the release of personal information.

1.2 Identify technologies.

- θ Identify technologies in daily life.

1.3 Work collaboratively.

- θ Introduced to technology as a communication and collaboration tool.

**TECHNOLOGY CURRICULUM INTEGRATION STRAND
LEVEL Pre-Kindergarten**

1.0 Technology Productivity Tools - Students use technology tools to enhance learning, increase productivity, and promote creativity.

By applying knowledge gained through **teacher modeling**, students in pre-kindergarten are expected to know and apply the following objectives in order to make progress toward meeting the Unifying Standard 1.0 by the end of grade twelve:

1.1 Use subject-specific applications.

- θ Use subject-specific software to assist in learning.
- θ Create original artwork using age-appropriate software.

2.0 Technology Communications Tools - Students use a variety of media and formats to collaborate, publish, and interact with peers, experts, and other multiple audiences.

By applying knowledge gained through **teacher modeling**, students in pre-kindergarten are expected to know and apply the following objectives in order to make progress toward meeting the Unifying Standard 2.0 by the end of grade twelve:

2.1 Safely use Internet-based tools.

- θ Exposed to using pre-selected children's sites to interact with Web pages.
- θ Tell parent or teacher about any uncomfortable online experiences.

2.2 Apply communication tools.

- θ Participate in teacher-directed classroom and distant collaboration projects (e.g., email, facsimile, and other Internet-based tools).

3.0 Technology Research Tools - Students will use technology to locate, evaluate, collect, and process information from a variety of sources. They will evaluate and select information resources and technological innovations based on the appropriateness to specific tasks.

By applying knowledge gained through **teacher modeling**, students in pre-kindergarten are expected to know and apply the following objectives in order to make progress toward meeting the Unifying Standard 3.0 by the end of grade twelve:

3.1 Locate information.

- θ Exposed to pre-selected informational resources (e.g., CD-ROM, laser discs, and the Internet).

3.2 Utilize primary resources.

- θ Exposed to primary resources using technology tools (e.g., area experts, original documents).

4.0 Technology Problem-Solving and Decision-Making Tools - Students will use technology in the development of strategies both for solving problems and making informed decisions in the classroom and the real world.

By applying knowledge gained through **teacher modeling**, students in pre-kindergarten are expected to know and apply the following objectives in order to make progress toward meeting the Unifying Standard 4.0 by the end of grade twelve:

4.1 Use technology resources.

- θ Exposed to puzzles and logical thinking programs.
- θ Exposed to writing and drawing tools to illustrate thoughts, ideas, and stories.

**TECHNOLOGY OPERATION STRAND
LEVEL Kindergarten**

1.0 Basic Operations and Concepts - Students demonstrate a sound understanding of the nature, operation, and use of technology systems.

With **teacher assistance**, students in kindergarten are expected to know and apply the following objectives in order to make progress toward meeting the Unifying Standard 1.0 by the end of grade twelve:

1.1 Use keyboard.

- θ Exposed to proper touch-typing and mouse techniques.
- θ Exposed to special function keys including return, space bar, alt/shift/control, backspace, and arrow keys.

1.2 Use input devices.

- θ Exposed to correct terminology when identifying and naming input and output devices (e.g., mouse, keyboard, remote control, printer, monitor, and scanner).
- θ Manipulate VCR, tape recorders, calculator, and other technologies.

1.3 Access files.

- θ Exposed to skills such as save, open, print, and close with regard to documents.

**TECHNOLOGY ISSUES STRAND
LEVEL Kindergarten**

1.0 Social, ethical, and cultural issues - Students demonstrate positive attitudes about using technology to support lifelong learning, collaboration, personal pursuits, and productivity. They understand the social, ethical, and cultural issues related to technology and practice responsible use of technology systems, information, and software.

With **teacher assistance**, students in kindergarten are expected to know and apply the following objectives in order to make progress toward meeting the Unifying Standard 1.0 by the end of grade twelve:

1.1 Demonstrate appropriate behavior.

- θ Introduced to the PUSD Acceptable Use Agreement.
- θ Introduced to issues regarding the release of personal information.

1.2 Identify technologies.

- θ Identify technologies in daily life.

1.3. Work collaboratively.

- θ Introduced to technology as a communication and collaboration tool.

**TECHNOLOGY CURRICULUM INTEGRATION STRAND
LEVEL Kindergarten**

1.0 Technology Productivity Tools - Students use technology tools to enhance learning, increase productivity, and promote creativity.

With **teacher assistance**, students in kindergarten are expected to know and apply the following objectives in order to make progress toward meeting the Unifying Standard 1.0 by the end of grade twelve:

1.1 Use word processing applications.

- θ Introduced to locating and opening applications.
- θ Create and print a simple document.
- θ Introduced to creating a document containing both text and simple graphics.

1.2 Use subject-specific applications.

- θ Introduced to locating and opening applications.
- θ Introduced to using subject-specific software to assist in learning the PUSD unifying standards.
- θ Introduced to creating original artwork using age-appropriate software.

2.0 Technology Communications Tools - Students use a variety of media and formats to collaborate, publish, and interact with peers, experts, and other multiple audiences.

With **teacher assistance**, students in kindergarten are expected to know and apply the following objectives in order to make progress toward meeting the Unifying Standard 2.0 by the end of grade twelve:

2.1 Safely use Internet-based tools.

- θ Introduced to pre-selected children's sites to interact with Web pages.
- θ Tell parent or teacher about any uncomfortable online experiences.

2.2 Apply communication tools.

- θ Participate in teacher-directed classroom and distant collaboration projects that support the PUSD unifying standards (e.g., email, facsimile, and other Internet-based tools).

2.3 Create presentations and exhibitions.

- θ Exposed to creating presentations/exhibitions that support PUSD unifying standards (e.g., desktop publishing, PowerPoint, and other presentation tools).

3.0 Technology Research Tools - Students will use technology to locate, evaluate, collect, and process information from a variety of sources. They will evaluate and select information resources and technological innovations based on the appropriateness to specific tasks.

With **teacher assistance**, students in kindergarten are expected to know and apply the following objectives in order to make progress toward meeting the Unifying Standard 3.0 by the end of grade twelve:

3.1 Locate information.

- θ Introduced to pre-selected informational resources (e.g., CD-ROM, laser discs, the Internet).
- θ Exposed to child-appropriate Internet search engines (e.g., Yahoo!igans, Ask Jeeves for Kids).

3.2 Utilize primary resources.

- θ Interact with primary resources using technology tools (e.g., area experts, original documents).

4.0 Technology Problem-Solving and Decision-Making Tools - Students will use technology in the development of strategies both for solving problems and making informed decisions in the classroom and the real world.

With **teacher assistance**, students in kindergarten are expected to know and apply the following objectives in order to make progress toward meeting the Unifying Standard 4.0 by the end of grade twelve:

4.1 Participate in collaborative problem solving.

- θ Exposed to how online tools can build relationships with classroom and distant partners.

4.2 Use technology resources.

- θ Introduced to puzzles and logical thinking programs.
- θ Use writing and drawing tools to illustrate thoughts, ideas, and stories.

TECHNOLOGY OPERATION STRAND LEVEL 1

1.0 Basic Operations and Concepts - Students demonstrate a sound understanding of the nature, operation, and use of technology systems.

With **decreasing assistance**, students in level 1 are expected to know and apply the following objectives in order to make progress toward meeting the Unifying Standard 1.0 by the end of grade twelve:

1.1 Use keyboard.

- θ Introduced to touch typing; introduced to special function keys (e.g., alt/shift/control, backspace, and arrow keys).
- θ Use proper mouse techniques.

1.2 Use input devices.

- θ Use correct terminology when identifying input and output devices (e.g., mouse, keyboard, remote control, printer, monitor, and scanner).
- θ Use VCR and tape recorders.

1.3 Use window functions.

- θ Introduced to minimizing and maximizing windows.
- θ Open and close applications; introduced to using taskbar (e.g., start button, multiple window locators).

1.4 Access files.

- θ Open and print a document.

1.5 Access the Internet.

- θ Aware that the Internet is a resource for information.

TECHNOLOGY ISSUES STRAND LEVEL 1

1.0 Social, ethical, and cultural issues - Students demonstrate positive attitudes about using technology to support lifelong learning, collaboration, personal pursuits, and productivity. They understand the social, ethical, and cultural issues related to technology and practice responsible use of technology systems, information, and software.

With **decreasing assistance**, students in level 1 are expected to know and apply the following objectives in order to make progress toward meeting the Unifying Standard 1.0 by the end of grade twelve:

1.1 Demonstrate appropriate behavior.

- θ Introduced to the PUSD Acceptable Use Agreement.
- θ Understand issues regarding the release of personal information.

1.2 Identify technologies.

- θ Identify technologies in daily life.
- θ Describe the advantages and disadvantages of technology.

1.3 Work collaboratively.

- θ Introduced to technology as a communication and collaboration tool.

TECHNOLOGY CURRICULUM INTEGRATION STRAND LEVEL 1

1.0 Technology Productivity Tools - Students use technology tools to enhance learning, increase productivity, and promote creativity.

With **decreasing assistance**, students in level 1 are expected to know and apply the following objectives in order to make progress toward meeting the Unifying Standard 1.0 by the end of grade twelve:

1.1 Use word processing applications.

- θ Introduced to locating and opening an application.
- θ Create and print a simple document; create a document containing both text and original graphics.

1.2 Use presentation applications.

- θ Introduced to locating and opening an application.
- θ Create and print presentation.

1.3 Use subject-specific applications.

- θ Introduced to locating and opening an application.
- θ Use subject-specific software to assist in learning PUSD unifying standards.

2.0 Technology Communications Tools - Students use a variety of media and formats to collaborate, publish, and interact with peers, experts, and other multiple audiences.

With **decreasing assistance**, students in level 1 are expected to know and apply the following objectives in order to make progress toward meeting the Unifying Standard 2.0 by the end of grade twelve:

2.1 Safely use Internet-based tools.

- θ Use pre-selected children's sites to gather information.
- θ Tell parent or teacher about any uncomfortable online experiences.

2.2 Apply communication tools.

- θ Participate in teacher-directed classroom and distant collaboration activities that support the PUSD unifying standards (e.g., email, facsimile, and other Internet-based tools).

2.3 Create presentations and exhibitions.

- θ Introduced to combining software and hardware devices to create presentations/exhibitions that support PUSD unifying standards (e.g., desktop publishing, PowerPoint, and other presentation tools).

3.0 Technology Research Tools - Students will use technology to locate, evaluate, collect, and process information from a variety of sources. They will evaluate and select information resources and technological innovations based on the appropriateness to specific tasks.

With **decreasing assistance**, students in level 1 are expected to know and apply the following objectives in order to make progress toward meeting the Unifying Standard 3.0 by the end of grade twelve:

3.1 Locate information.

- θ Introduced to selecting appropriate resources to perform specific tasks (e.g., CD-ROM, dictionary, word wall, encyclopedia).
- θ Introduced to child-appropriate Internet search engines, e.g., Yahoooligans, Ask Jeeves for Kids.

3.2 Utilize primary resources.

- θ Interact with primary resources using technology tools (e.g., area experts, original documents).

4.0 Technology Problem-Solving and Decision-Making Tools - Students will use technology in the development of strategies both for solving problems and making informed decisions in the classroom and the real world.

With **decreasing assistance**, students in level 1 are expected to know and apply the following objectives in order to make progress toward meeting the Unifying Standard 4.0 by the end of grade twelve:

4.1 Informed and contributing citizens.

- θ Introduced to how technology tools can connect individuals across nations, cultures, and beliefs.
- θ Introduced to how technology tools can be used to share their views with an extended audience.

4.2 Participate in collaborative problem solving.

- θ Introduced to how online tools can build relationships with classroom and distant partners.

4.3 Use technology resources.

- θ Interact with puzzles and logical thinking programs.
- θ Use writing and drawing tools to illustrate thoughts, ideas, and stories.

TECHNOLOGY OPERATION STRAND LEVEL 2

1.0 Basic Operations and Concepts - Students demonstrate a sound understanding of the nature, operation, and use of technology systems.

Students in level 2 are expected to know and apply the following objectives in order to make progress toward meeting the Unifying Standard 1.0 by the end of grade twelve:

1.1 Use keyboard.

- θ Locate home row and special function keys (e.g., alt/shift/control, backspace, and arrow keys).
- θ Begin to touch-type.
- θ Use proper mouse techniques; introduced to right and left mouse button functions.

1.2 Use input devices.

- θ Use correct terminology when identifying input and output devices (e.g., mouse, keyboard, remote control, printer, monitor, and scanner).
- θ Use VCR and tape recorders.

1.3 Use window functions.

- θ Minimize and maximize windows.
- θ Open and close applications.
- θ Introduced to using taskbar (e.g., start button, multiple window locators).

1.4 Access files.

- θ Open, save, and print a document.

1.5 Access the Internet.

- θ Aware that the Internet is a resource for information.

TECHNOLOGY ISSUES STRAND

LEVEL 2

1.0 Social, ethical, and cultural issues - Students demonstrate positive attitudes about using technology to support lifelong learning, collaboration, personal pursuits, and productivity. They understand the social, ethical, and cultural issues related to technology and practice responsible use of technology systems, information, and software.

Students in level 2 are expected to know and apply the following objectives in order to make progress toward meeting the Unifying Standard 1.0 by the end of grade twelve:

1.1 Demonstrate appropriate behavior.

- θ Aware of the PUSD Acceptable Use Agreement.
- θ Understand issues regarding the release of personal information.

1.2 Identify technologies.

- θ Identify technologies in daily life; describe the advantages and disadvantages of technology.

1.3 Work collaboratively.

- θ Understand technology is a communication and collaboration tool.

TECHNOLOGY CURRICULUM INTEGRATION STRAND LEVEL 2

1.0 Technology Productivity Tools - Students use technology tools to enhance learning, increase productivity, and promote creativity.

Students in level 2 are expected to know and apply the following objectives in order to make progress toward meeting the Unifying Standard 1.0 by the end of grade twelve:

1.1 Use word processing applications.

- θ Locate and open application.
- θ Create and print a simple document; create a document containing both text and original graphics.

1.2 Use presentation applications.

- θ Locate and open application.
- θ Create and print presentation.

1.3 Use subject-specific applications.

- θ Locate and open application.
- θ Use subject-specific software to assist in learning PUSD unifying standards.

2.0 Technology Communications Tools - Students use a variety of media and formats to collaborate, publish, and interact with peers, experts, and other multiple audiences.

Students in level 2 are expected to know and apply the following objectives in order to make progress toward meeting the Unifying Standard 2.0 by the end of grade twelve:

2.1 Safely use Internet-based tools.

- θ Use pre-selected children's sites to gather information.
- θ Tell parent or teacher about any uncomfortable online experiences.

2.2 Apply communication tools.

- θ Participate in teacher-directed classroom and distant collaboration activities that support the PUSD unifying standards (e.g., email, facsimile, and other Internet-based tools).

2.3 Create presentations and exhibitions.

- θ Introduced to combining software and hardware devices to create presentations/exhibitions that support PUSD unifying standards (e.g., KidPix, Hyperstudio, PowerPoint, and other presentation tools).

3.0 Technology Research Tools - Students will use technology to locate, evaluate, collect, and process information from a variety of sources. They will evaluate and select information resources and technological innovations based on the appropriateness to specific tasks.

Students in levels 3 are expected to know and apply the following objectives in order to make progress toward meeting the Unifying Standard 3.0 by the end of grade twelve:

3.1 Locate information.

- θ Locate information using a child-appropriate search engine (e.g., Yahoo!igans, Ask Jeeves for Kids).

3.2 Utilize primary resources.

- θ Interact with primary resources using technology tools (e.g., area experts, original documents).

4.0 Technology Problem-Solving and Decision-Making Tools - Students will use technology in the development of strategies both for solving problems and making informed decisions in the classroom and the real world.

Students in levels 3 are expected to know and apply the following objectives in order to make progress toward meeting the Unifying Standard 4.0 by the end of grade twelve:

4.1 Informed and contributing citizens.

- θ Understand that technology tools can connect individuals across nations, cultures, and beliefs.
- θ Introduced to how technology tools can be used to share their views with an extended audience.

4.2 Participate in collaborative problem solving.

- θ Aware that online tools can build relationships with classroom and distant partners.

4.3 Use technology resources.

- θ Interact with puzzles and logical thinking programs.
- θ Use writing and drawing tools to illustrate thoughts, ideas, and stories.