

Grade level: 2nd Grade

Course Title: Computers

Topic/Concept: Parts of the Computer

Time Allotment: 2 class sessions

Unit Sequence: 1

Major Concepts to be learned:

1. Students will learn the major parts of the computer and their functions (Monitor, Keyboard, Mouse, Hard Drive (CPU), Headphones(speakers), Printer, CD-Rom, Flash Drive)
2. Students will distinguish between input and output devices on the computer

Expected Skills to be demonstrated:

1. Identify the parts of the computer.
2. Identify the function of each part of the computer in the overall operations of a computer.
3. Identify which parts of the computer are input devices and which our output devices.

PA Standards/Anchors:

Eligible Content:

PA Standard 3.7.2 C ISTE Standard 6a	<ul style="list-style-type: none">• Recognize that a computer is made up of parts that perform different operations• Identify the different parts of the computer
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Instructional Strategies:

Assessments:

Students Interaction Using Smartboard Internet Resource Teacher Discussion	<ul style="list-style-type: none">• Test• Teacher Observation
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Due to the changing nature of technology this curriculum is subject to change as new technologies are invented and made available

Grade level: 2nd Grade

Course Title: Computers

Topic/Concept: Computerized Art (Kid Pix)

Time Allotment: 3 class sessions

Unit Sequence: 2

Major Concepts to be learned:

1. Understand how each tool in the Paint A Picture Section of Kid Pix works
2. Use all the tools in Kid Pix together to create a piece of computerized artwork

Expected Skills to be demonstrated:

1. Use all tools in an appropriate manner
2. Understand when certain tools should be chosen to complete assignments
3. Tell a story through computerized artwork using all tools in an appropriate way

PA Standards/Anchors:

Eligible Content:

PA Standard 3.6.2 A
PA Standard 3.7.2 D
ISTE Standard 1b
ISTE Standard 6a & 6d

- Work with the computer by using basic computer software
- Use educational software to manipulate the keyboard or mouse
- Demonstrate the ability to communicate an idea through the use of a computer
- Use technology to create original works as a means of expression
- Transfer current knowledge to the learning of new applications

Instructional Strategies:

Assessments:

Teacher Demonstration on the Smartboard
Student Interaction Using Smartboard
Teacher Discussion
Independent Student Practice on Computers

- Computer Based Project
- Teacher Observation

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Grade level: 2nd Grade

Course Title: Computers

Topic/Concept: Computer Art with Movement

Time Allotment: 3 class sessions

Unit Sequence: 3

Major Concepts to be learned:

1. How to add movement to computerized art in an appropriate manner
2. Incorporating appropriate sound and backgrounds into an illustration to enhance the quality of illustration
3. Using all of the Moopies Tools to create a picture that tells a story

Expected Skills to be demonstrated:

1. Ability to add sound and background to a picture
2. Using the moving tools in a way that makes sense within the background
3. Incorporating unmoving objects into a picture
4. Ability to tell a story with movement

PA Standards/Anchors:

Eligible Content:

PA Standard 3.6.2 A
PA Standard 3.7.2 D
ISTE Standard 1b
ISTE Standard 6a & 6b

- Transfer current knowledge to the learning of new applications
- Work with the computer by using basic computer software
- Use educational software to manipulate the keyboard or mouse

Instructional Strategies:

Assessments:

Teacher Demonstration on the Smartboard
Student Interaction Using Smartboard
Teacher Discussion
Independent Student Practice on Computers

- Computer Based Project
- Teacher Observation

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Grade level: 2nd Grade Course Title: Computers Topic/Concept: Compare and Contrast (Art Applications)

Time Allotment: 1 class session Unit Sequence: 4

Major Concepts to be learned:

1. Compare the tools of Kid Pix Paint a Picture and Moopies Sections how they are similar and different

Expected Skills to be demonstrated:

1. How to use a Venn Diagram to compare and contrast two programs
2. Knowledge of each programs tools
3. Recognize the differences between the tools similar to each program

PA Standards/Anchors:

Eligible Content:

PA Standard 2.3.2 A
ISTE Standard 6b

- Transfer current knowledge to the learning of new applications
- Select appropriate application to complete a task effectively

Instructional Strategies:

Assessments:

Teacher Demonstration on the Smartboard
Student Interaction Using Smartboard
Teacher Discussion
Independent Student Practice on Computers

- Computer Based Project
- Teacher Observation

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Grade level: 2nd Grade

Course Title: Computers

Topic/Concept: Character Control (Kid Pix)

Time Allotment: 2 class sessions

Unit Sequence: 5

Major Concepts to be learned:

1. How to manipulate a puppet using the keyboard
2. How to add appropriate backgrounds and sounds to the puppet show
3. How to record, play, and pause a puppet show

Expected Skills to be demonstrated:

1. Ability to change puppets by navigating through menus
2. Ability to manipulate puppets to achieve certain movements using the keyboard
3. Ability to add backgrounds and sounds to puppet shows
4. Ability to record and play a puppet show

PA Standards/Anchors:

Eligible Content:

PA Standard 3.7.2 D
PA Standard 3.6.2 A
ISTE Standard 1b
ISTE Standard 6a

- Use technology to create original works as a means of expression
- Understand and use technology systems
- Transfer current knowledge to the learning of new applications

Instructional Strategies:

Assessments:

Teacher Demonstration on the Smartboard
Teacher Discussion
Independent Student Practice on Computers

- Computer Based Project
- Test
- Teacher Observation

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Grade level: 2nd Grade

Course Title: Computers

Topic/Concept: Video Viewing (Kid Pix)

Time Allotment: 2 class sessions

Unit Sequence: 6

Major Concepts to be learned:

1. How to open up a video file by navigating through multiple folders
2. How to use all the buttons common with playback features on a audio/video devise
3. How adjust a video using a variety of editing buttons and tools

Expected Skills to be demonstrated:

1. Ability to select a video by navigating through multiple folders
2. Ability control a video by using appropriate buttons
3. Ability to edit a video using editing features
4. Ability to locate information from a video using video controls

PA Standards/Anchors:

Eligible Content:

PA Standard 3.7.2 D
PA Standard 3.6.2 A
ISTE Standard 1b
ISTE Standard 6a

- Understand and use technology systems
- Transfer current knowledge to the learning of new applications
- Identify basic computer operations

Instructional Strategies:

Assessments:

Teacher Demonstration on the Smartboard
Teacher Discussion
Independent Student Practice on Computers

- Computer Based Project
- Test
- Teacher Observation

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Grade level: 2nd Grade

Course Title: Computers

Topic/Concept: Animation (Kid Pix)

Time Allotment: 3 class sessions

Unit Sequence: 7

Major Concepts to be learned:

1. How to illustrate a story using computer animation
2. How adjust the path of animations to enhance the story production
3. How to combine stationary objects with animated objects

Expected Skills to be demonstrated:

1. Ability to create animation path for characters
2. Ability to adjust the animation path using the toolbar
3. Ability to tell a story through animation
4. Ability to enhance a story by using a variety of tools

PA Standards/Anchors:

Eligible Content:

PA Standard 3.7.2 D
PA Standard 3.6.2 A
ISTE Standard 1b
ISTE Standard 6a

- Understand and use technology systems
- Transfer current knowledge to the learning of new applications
- Identify basic computer operations

Instructional Strategies:

Assessments:

Teacher Demonstration on the Smartboard
Teacher Discussion
Independent Student Practice on Computers

- Computer Based Project
- Test
- Teacher Observation

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Grade level: 2nd Grade

Course Title: Computers

Topic/Concept: Slide Shows (Kid Pix)

Time Allotment: 4 class sessions

Unit Sequence: 8

Major Concepts to be learned:

1. How to illustrate a written story using a variety of Kid Pix programs
2. How to build a complete story using a three slides (Beginning, Middle, and End Slides)
3. How to play and present a slideshow

Expected Skills to be demonstrated:

1. Ability to illustrate the beginning, middle, and end of a story using multiple slides and multiple sections of Kid Pix
2. Knowledge of how to build a story from various slides
3. Ability to present a complete story

PA Standards/Anchors:

PA Standard 3.7.2 D
PA Standard 3.6.2 A
ISTE Standard 1b
ISTE Standard 6a

Eligible Content:

- Understand and use technology systems
- Transfer current knowledge to the learning of new applications
- Identify basic computer operations

Instructional Strategies:

Teacher Demonstration on the Smartboard
Teacher Discussion
Independent Student Practice on Computers

Assessments:

- Computer Based Project
- Test
- Teacher Observation

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Grade level: 2nd Grade

Course Title: Computers

Topic/Concept: Internet Basics

Time Allotment: 3 class sessions

Unit Sequence: 10

Major Concepts to be learned:

1. Navigating through the internet toolbar (Understanding the toolbar buttons back, forward, address bar, history, refresh, favorites, home and print and how they impact ease of use)
2. Understanding a domain address and typing an address in the address bar
3. Navigate through age-appropriate websites (Using Text Links and Picture Links)

Expected Skills to be demonstrated:

1. Understanding of each button on the internet toolbar and how it assists with internet navigation
2. Independantly navigate through age-appropriate websites
3. Conduct a simple search using a search bar
4. Type an address in the address bar

PA Standards/Anchors:

Eligible Content:

PA Standard 3.7.1 D
PA Standard 1.2.1 B
PA Standard 3.7.1 E
ISTE Standard 5a

- Use a computer as a form of media to gain information
- Understand and use technology systems
- Transfer current knowledge to the learning of new applications

Instructional Strategies:

Assessments:

Teacher Demonstration on the Smartboard
Student Interaction Using Smartboard
Teacher Discussion
Guided Student Practice on Computers
Independent Student Practice on Computers

- Computer Based Project
- Teacher Observation
- Test

Grade level: 2nd grade

Course Title: Computers

Topic/Concept: Learning the keyboard

Time Allotment: 2 class sessions

Unit Sequence: 11

Major Concepts to be learned:

1. The function of the enter, backspace, shift, space bar, tab, and caps lock key
2. How these keys are used in various (Word Processings, Internet Applications, etc)

Expected Skills to be demonstrated:

1. Knowledge of each key and it's function
2. Proper use of these keys in various Word Processing (Microsoft Word) activities
3. Knowledge of where each key is located on the keyboard

PA Standards/Anchors:

Eligible Content:

PA Standard 3.7.2 C
ISTE Standard 6a

- Identify basic computer operations
- Use educational software to manipulate the keyboard
- Understand and use technology systems

Instructional Strategies:

Assessments:

Teacher Demonstration on the Smartboard
Teacher Discussion
Guided Student Practice on Computers

- Computer Based Project
- Test
- Teacher Observation

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Grade level: 2nd grade

Course Title: Computers

Topic/Concept: Microsoft Word (Font Formating)

Time Allotment: 4 Class Sessions

Unit Sequence: 12

Major Concepts to be learned:

1. How to type words in a word processing (Microsoft Word) Program
2. How to change the font style, color, and size of the typed text (before and after typing)
3. How to incorporate Text on Page using font formatting buttons (bold, italics, underlined, and highlight)

Expected Skills to be demonstrated:

1. Ability to change the font style, color, and size of type in a Microsoft Word Document (before and after typing)
2. Proper use of the enter, space, shift, backspace, caps lock, and tab keys in Microsoft Word
3. Knowledge of appropriate situations where text would be bold, italics, or underlined and highlighted in a Word document

PA Standards/Anchors:

Eligible Content:

PA Standard 3.7.2 D
ISTE Standard 6a

- Work with the computer by using basic computer software
- Use educational software to manipulate the keyboard or mouse
- Identify basic computer operations

Instructional Strategies:

Assessments:

Teacher Demonstration on the Smartboard
Student Interaction Using Smartboard
Guided Student Practice on Computers

- Computer Based Project
- Test
- Teacher Observation

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Grade level: 2nd Grade

Course Title: Computers

Topic/Concept: Microsoft Word (Clip Art)

Time Allotment: 3 class sessions

Unit Sequence: 13

Major Concepts to be learned:

1. How to search for a piece of Clip Art using a search box
2. How to insert and remove a piece of Clip Art
3. How to move Clip Art to any location on the paper
4. How to properly resize Clip Art

Expected Skills to be demonstrated:

1. Ability to properly search for, insert, and remove a piece of Clip Art
2. Ability to move Clip Art around a page using the text wrapping feature
3. Ability to resize Clip Art from the corners (Not sides and top and bottom)
4. How to insert multiple pieces of clip art into a document and layer the clip art

PA Standards/Anchors:

Eligible Content:

PA Standard 3.7.2 D
ISTE Standard 6a

- Demonstrate the ability to communicate an idea through the use of a computer
- Use technology to create original works as a means of expression
- Understand and use technology systems
- Transfer current knowledge to the learning of new applications

Instructional Strategies:

Assessments:

Teacher Demonstration on the Smartboard
Student Interaction Using Smartboard
Teacher Discussion
Guided Student Practice on Computers
Independent Student Practice on Computers

- Computer Based Project
- Test
- Teacher Observation

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Grade level: 2nd Grade Course Title: Computers Topic/Concept: Publishing and Illustrating A Writing Piece

Time Allotment: 3 class sessions

Unit Sequence: 14

Major Concepts to be learned:

1. How to use a Word Processing program (Microsoft Word) to type and illustrate an idea.
2. Proper Typing of a sentence (Punctuation placement, capitalization, and spacing)
3. Illustrating sentences using multiple pieces of clip art

Expected Skills to be demonstrated:

1. Proper sentence typing format
2. Ability to match appropriate clip art with sentence content
3. Ability to change the font style, size, and color of the sentence.

PA Standards/Anchors:

Eligible Content:

PA Standard 3.7.1 D
PA Standard 3.6.1 A
ISTE Standard 1b
ISTE Standard 6a

- Demonstrate the ability to communicate an idea through the use of a computer
- Use technology to create original works as a means of expression

Instructional Strategies:

Assessments:

Teacher Demonstration on the Smartboard
Student Interaction Using Smartboard
Teacher Discussion
Guided Student Practice on Computers
Independent Student Practice on Computers

- Computer Based Project
- Teacher Observation

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