

Grade level: 1

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)

Expected Skills to be demonstrated:

1. Identify the mointor, keyboard, mouse, and harddrive (CPU), printer, headphones.
2. Identify the function of the mointor, keyboard, mouse, CPU, printer, headphone.

PA Standards/Anchors:

Eligible Content:

PA Standard 3.7.1 C
ISTE Standard 6a

- Recognize that a computer is made up of parts that perform different operations
- Identify the different parts of the computer

Instructional Strategies:

Assessments:

Students Interaction Using Smartboard
Internet Resource
Teacher Discussion
Coloring Sheet

- Test
- Teacher Observation

Due to the changing nature of technology this curriculum is subject to change as new technologies are invented and made available

Grade level: 1

Course Title: Computers

Topic/Concept: Computerized Art (Paint)

Time Allotment: 3 class sessions

Unit Sequence: 2

Major Concepts to be learned:

1. Understand how each tool in Paint works
2. Use all the tools in Paint together to create a piece of computerized artwork
3. Tell a story through their computerized Art picture

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

- 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

Instructional Strategies:

Assessments:

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

- Computer Based Project
- Teacher Observation

Due to the changing nature of technology this curriculum is subject to change as new technologies are invented and made available

Grade level: 1

Course Title: Computers

Topic/Concept: Computerized Art (Kid Pix)

Time Allotment: 3 class sessions

Unit Sequence: 3

Major Concepts to be learned:

1. Understand how each tool in Kid Pix works
2. Use all the tools in Kid Pix together to create a piece of computerized artwork
3. Compare the tools of Kid Pix and Paint how they are similar and different

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 3.6.1 A
PA Standard 3.7.1 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

Due to the changing nature of technology this curriculum is subject to change as new technologies are invented and made available

Grade level: 1

Course Title: Computers

Topic/Concept: Compare & Contrast (Art Applications)

Time Allotment: 1 class session

Unit Sequence: 4

Major Concepts to be learned:

1. Compare the tools of Kid Pix and Paint 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 program (Kid Pix and Paint)
3. Recognize the differences between the tools similar to each program

PA Standards/Anchors:

Eligible Content:

PA Standard 2.3.1 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

- Teacher Observation

Due to the changing nature of technology this curriculum is subject to change as new technologies are invented and made available

Grade level: 1

Course Title: Computers

Topic/Concept: Backgrounds tell a story (Kid Pix

Time Allotment: 2 class sessions

Unit Sequence: 5

Major Concepts to be learned:

1. Navigate through multiple folders to access background
2. Edit backgrounds using the stamp tool appropriately
3. Navigate through stamp options to locate appropriate stamps

Expected Skills to be demonstrated:

1. Locating backgrounds by navigating through folders independantly
2. Locating appropriate stamps by navigating through menus independantly
3. Illustrating backgrounds using appropriate stamps for the background
4. Tell a story through illustrations

PA Standards/Anchors:

Eligible Content:

PA Standard 3.6.1 A
PA Standard 3.7.1 D
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
- Understand and use technology systems

Instructional Strategies:

Assessments:

Teacher Demonstration on the Smartboard
Independent Student Practice on Computers

- Computer Based Project
- Teacher Observation

Due to the changing nature of technology this curriculum is subject to change as new technologies are invented and made available

Grade level: 1

Course Title: Computers

Topic/Concept: Coloring with the Computer

Time Allotment: 2 class session

Unit Sequence: 6

Major Concepts to be learned:

1. Navigate through multiple folders to access pictures
2. Use the Fill Can Tool to complete a project
3. Troubleshoot mistakes using appropriate Kid Pix tools

Expected Skills to be demonstrated:

1. Locating pictures by navigating through folders independently
2. Coloring pictures using appropriate colors and patterns
3. Troubleshooting mistakes to allow for proper coloring

PA Standards/Anchors:

Eligible Content:

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

- Use technology to create original works as a means of expression
- Understand and use technology systems

Instructional Strategies:

Assessments:

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

- Computer Based Project
- Teacher Observation

Due to the changing nature of technology this curriculum is subject to change as new technologies are invented and made available

Grade level: 1

Course Title: Computers

Topic/Concept: Beginning Sounds with Kid Pix

Time Allotment: 1 session

Unit Sequence: 7

Major Concepts to be learned:

1. The format of an acrostic poem
2. The beginning sounds of various stamps that coordinate with letters

Expected Skills to be demonstrated:

1. Positioning text in a vertical format (similar to an acrostic poem)
2. Locating stamps that begin with the same letters
3. Navigating through various menus to locate stamps

PA Standards/Anchors:

Eligible Content:

PA Standard 3.7.1 D
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
- Teacher Observation

Grade level: 1

Course Title: Computers

Topic/Concept: Computer Art with Movement

Time Allotment: 3 class sessions

Unit Sequence: 8

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

Expected Skills to be demonstrated:

1. Ability to add sound and background to a picture
2. Appropriate use of the tools on the backgrounds
3. Knowledge of each tool and how it is different to the Paint a Picture section of Kid Pix
4. Ability to adjust the movement of the stamps

PA Standards/Anchors:

Eligible Content:

PA Standard 3.6.1 A
PA Standard 3.7.1 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

Due to the changing nature of technology this curriculum is subject to change as new technologies are invented and made available

Grade level: 1

Course Title: Computers

Topic/Concept: Researching with Computer Encyclopedias

Time Allotment: 3 class sessions

Unit Sequence: 9

Major Concepts to be learned:

1. Navigation through categories within a digital encyclopedia to locate desired information
2. Searching for information using the search bar by typing in search term
3. Locating and interpreting all types of media (pictures, videos, interactives, sound)

Expected Skills to be demonstrated:

1. Knowledge of various media types and how they are labeled
2. Ability to locate information using both search methods
3. Selection of the appropriate search method
4. Knowledge of various menu features that assist with searching

PA Standards/Anchors:

Eligible Content:

PA Standard 3.7.1 D
PA Standard 1.2.1 B
ISTE Standard 6a

- Work with the computer by using basic computer software
- Use educational software to manipulate the keyboard or mouse
- Use a variety of media to gain information

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

Due to the changing nature of technology this curriculum is subject to change as new technologies are invented and made available

Grade level: 1

Course Title: Computers

Topic/Concept: Learning the keyboard

Time Allotment: 3 class sessions

Unit Sequence: 10

Major Concepts to be learned:

1. The function of the enter, backspace, shift, space bar, 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 3.7.1 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

Due to the changing nature of technology this curriculum is subject to change as new technologies are invented and made available

Grade level: 1

Course Title: Computers

Topic/Concept: Microsoft Word (Font Formatting)

Time Allotment: 3 Class Sessions

Unit Sequence: 11

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

Expected Skills to be demonstrated:

1. Ability to change the font style, color, and size of type in a Microsoft Word Document (Using Drop Down Menu)
2. Proper use of the enter, space, shift, backspace, caps lock keys in Microsoft Word
3. Making changes to the font prior to typing

PA Standards/Anchors:

Eligible Content:

PA Standard 3.7.1 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

Due to the changing nature of technology this curriculum is subject to change as new technologies are invented and made available

Grade level: 1

Course Title: Computers

Topic/Concept: Microsfot Word (Word Art

Time Allotment: 3 class sessions

Unit Sequence: 12

Major Concepts to be learned:

1. How to insert a piece of Word Art
2. How to edit a piece of Word Art
3. How to move Word Art to any location on the paper
4. How to properly resize Word Art

Expected Skills to be demonstrated:

1. Ability to properly insert and edit a piece of word art to a word of choice
2. Ability to move Word Art around a page using the text wrapping feature
3. Ability to resize Word Art from the corners of the Word Art (Not sides and top and bottom)

PA Standards/Anchors:

Eligible Content:

PA Standard 3.7.1 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
- Demonstrate the ability to communicate an idea through the use of a computer

Instructional Strategies:

Assessments:

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

- Computer Based Project
- Test
- Teacher Observation

Due to the changing nature of technology this curriculum is subject to change as new technologies are invented and made available

Grade level: 1

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 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. Correctly searching for and inserting 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 of the image (Not sides and top and bottom)

PA Standards/Anchors:

Eligible Content:

PA Standard 3.7.1 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

Due to the changing nature of technology this curriculum is subject to change as new technologies are invented and made available

Grade level: 1

Course Title: Computers

Topic/Concept: Publishing & Illustrating a Writing Piece

Time Allotment: 3 weeks

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 (Spacing and Punctuation)
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

Due to the changing nature of technology this curriculum is subject to change as new technologies are invented and made available

Grade level: 1

Course Title: Computers

Topic/Concept: Internet Basics

Time Allotment: 2 class sessions

Unit Sequence: 15

Major Concepts to be learned:

1. Navigating through the internet toolbar (Understanding the back, forward, and refresh and how they impact ease of use)
2. Choose a "Favorite" Website
3. Navigate through age-appropriate websites (Using Text Links and Picture Links)

Expected Skills to be demonstrated:

1. Ability to locate and open a website from the favorites list
2. Understanding of each button on the internet toolbar and how it assist with internet navigation (back, forward, and refresh)
3. Independantly navigate through age-appropriate websites
4. Understanding windows and how to min, max, and close out of various windows.

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

Due to the changing nature of technology this curriculum is subject to change as new technologies are invented and made available