

Grade level: Kindergarten

Course Title: Computers

Topic/Concept: Major Parts of the Computer

Time Allotment: 2 class sessions

Unit Sequence: 1

Major Concepts to be learned:

1. Students will learn to identify the major parts of the computer (Monitor, Keyboard, Mouse, Hard Drive (CPU), Headphones(speakers), Printer)

Expected Skills to be demonstrated:

1. Identify the mointor, keybaord, ,mouse, harddrive, printer, and headphones
2. How to use the mouse (left clicking) and clicking and dragging to move items.

PA Standards/Anchors:

Eligible Content:

PA Standard 3.6.K F	<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:

Introduce each part of the computer using the following methods: <ul style="list-style-type: none">• Website• SMARTboard presentation• Hands-on manipulation with each part of the computer	<ul style="list-style-type: none">• Identifying Worksheet• SMARTBOARD Interactive Lesson Observation• Observing Classroom Computer Use
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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: Kindergarten

Course Title: Computers

Topic/Concept: Internet Skills

Time Allotment: 5 Class Sessions

Unit Sequence: 2

Major Concepts to be learned:

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| <ol style="list-style-type: none"> 1. The students will learn how to open the Internet Browser a variety of ways 2. Choose a "Favorite" Website 3. Navigate through age-appropriate websites 4. Close out of an internet window |
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Expected Skills to be demonstrated:

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| <ol style="list-style-type: none"> 1. Opening the Internet using one of the three methods (Shortcut, Start Menu, or Icon) 2. Choosing the appropriate website from the list of favorite websites 3. Using the mouse appropriately to navigate through a website by clicking on links 4. Close out of internet window |
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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	<ul style="list-style-type: none"> • 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
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Instructional Strategies:

Assessments:

Teacher Demonstration on the Smartboard Student Interaction Using Smartboard Teacher Discussion Guided Student Practice on Computers Independent Student Practice on Computers	<ul style="list-style-type: none"> • Teacher Observation • Teacher Assessment with Rubric
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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: Kindergarten

Course Title: Computers

Topic/Concept: Paint

Time Allotment: 5 sessions

Unit Sequence: 3

Major Concepts to be learned:

1. How to open an Application from a shortcut (double click)
2. Understand how each tool in Paint works
3. Use all the tools in Paint together to create a piece of computerized artwork

Expected Skills to be demonstrated:

1. Opening the application (double click the shortcut)
2. Understanding how each tool works and can be utilized in a picture
3. Creating a picture utilizing all of the tools in appropriate sections of their picture

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 (rubric)
- 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: Kindergarten

Course Title: Computers

Topic/Concept: Kid Pix (Paint a Picture)

Time Allotment: 6 class sessions

Unit Sequence: 4

Major Concepts to be learned:

1. How to open an Application from a shortcut (double click shortcut)
2. Understand how each tool in Kid Pix works
3. Use all the tools in Kid Pix together to create a piece of computerized artwork
4. Compare the tools of Kid Pix and Paint how they are similar and different

Expected Skills to be demonstrated:

1. Opening the application
2. Understanding how each tool works and can be utilized in a picture
3. Creating a picture that tells a story utilizing multiple tools
4. Independently navigate through the menus to print project

PA Standards/Anchors:

Eligible Content:

PA Standard 3.6.1 A PA Standard 3.7.1 D ISTE Standard 1b ISTE Standard 6a & 6d	<ul style="list-style-type: none">• 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
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Instructional Strategies:

Assessments:

Teacher Demonstration on the Smartboard Student Interaction Using Smartboard Teacher Discussion Independent Student Practice on Computers	<ul style="list-style-type: none">• Computer Based Project (rubric)• 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: Kindergarten

Course Title: Computers

Topic/Concept: Background Selection/Stamps

Time Allotment: 2 sessions

Unit Sequence: 5

Major Concepts to be learned:

1. How to 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. Locate and select a background
2. Independently locate various stamps to illustrate the background in an appropriate manner
3. Independently print the final product

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

- 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: Kindergarten

Course Title: Computers

Topic/Concept: Digital Coloring

Time Allotment: 2 Class Sessions

Unit Sequence: 6

Major Concepts to be learned:

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

Expected Skills to be demonstrated:

1. Open a picture by navigating through folders
2. Color in a picture using the fill can tool appropriately
3. Independently troubleshoot coloring mistakes
4. Independently print final project

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

- 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: Kindergarten

Course Title: Computers

Topic/Concept: Internet Skills

Time Allotment: 2 Class Sessions

Unit Sequence: 7

Major Concepts to be learned:

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| <ol style="list-style-type: none"> 1. The students will review how to open the Internet Browser a variety of ways 2. Choose a "Favorite" Website 3. Navigate through age-appropriate websites 4. Close out of an internet window |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Expected Skills to be demonstrated:

- | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ol style="list-style-type: none"> 1. Opening the Internet using one of the three methods (Shortcut, Start Menu, or Icon) 2. Choosing the appropriate website from the list of favorite websites 3. Using the mouse appropriately to navigate through a website by clicking on links 4. Close out of internet window |
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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	<ul style="list-style-type: none"> • 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
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Instructional Strategies:

Assessments:

Teacher Demonstration on the Smartboard Student Interaction Using Smartboard Teacher Discussion Guided Student Practice on Computers Independent Student Practice on Computers	<ul style="list-style-type: none"> • Teacher Observation • Teacher Assessment with Rubric
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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: Kindergarten

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 illustrations

Expected Skills to be demonstrated:

1. Ability to add sound and background to a picture
2. Ability to use the tools appropriately on the backgrounds
3. Ability tool and how it is different to the Paint a Picture section of Kid Pix

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

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Grade level: Kindergarten

Course Title: Computers

Topic/Concept: Keyboard Practice

Time Allotment: 1 session

Unit Sequence: 9

Major Concepts to be learned:

1. The students will locate the letter keys on the keyboard using an internet application

Expected Skills to be demonstrated:

1. Where each letter key can be found on the standard keyboard

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

- Understand and use technology systems
- Transfer current knowledge to the learning of new applications

Instructional Strategies:

Assessments:

Teacher Demonstration on the Smartboard
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: Kindergarten

Course Title: Computers

Topic/Concept: Keyboard

Time Allotment: 4 class sessions

Unit Sequence: 10

Major Concepts to be learned:

1. Recognize the functions of the letter and number keys on the keyboard
2. The function of the enter, backspace, shift (Capital Letter Only), space bar, and caps lock key
3. Use these keys 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 "special" 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
- 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: Kindergarten

Course Title: Computers

Topic/Concept: Word Processing (Word)

Time Allotment: 4 weeks

Unit Sequence: 11

Major Concepts to be learned:

1. How to use a Word Processing Program to type words and sentences.
2. How to adjust the font by changing the font, size, and color of their type.(drop down menu choices ONLY)
3. How to print and Close out of a Microsoft Word Document

Expected Skills to be demonstrated:

1. Ability to type in Microsoft Word
2. Knowledge of how the following keys alter what is typed (shift, caps lock, enter, backspace, and space)
3. Ability to adjust the font color, style, and size in Microsoft Word
4. Independent printing and quitting from Microsoft Word.

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
- Teacher Observation

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