**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:**

| PA Standard 3.7.2 C | • Recognize that a computer is made up of parts that perform different operations  
| ISTE Standard 6a | • Identify the different parts of the computer |

**Instructional Strategies:**

- Students Interaction Using Smartboard
- Internet Resource
- Teacher Discussion

**Assessments:**

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

Eligible Content:
- 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:  
Teacher Demonstration on the Smartboard  
Student Interaction Using Smartboard  
Teacher Discussion  
Independent Student Practice on Computers

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

| Eligible Content: |
| 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:  
Teacher Demonstration on the Smartboard  
Student Interaction Using Smartboard  
Teacher Discussion  
Independent Student Practice on Computers

Assessments:

| 1. Computer Based Project |
| 2. 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: 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:  

| PA Standard 2.3.2 A  
| ISTE Standard 6b |

Eligible Content:

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

Instructional Strategies:

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

Assessments:

| 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: 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:  

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

Eligible Content:

- 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:  

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

Assessments:

- 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.
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: 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:  
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

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

Time Allotment: 3 class sessions  
Unit Sequence: 10  

Major Concepts to be learned:

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

Expected Skills to be demonstrated:

<table>
<thead>
<tr>
<th>Skill</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Understanding of each button on the internet toolbar and how</td>
</tr>
<tr>
<td>it assists with internet navigation</td>
</tr>
<tr>
<td>2. Independently navigate through age-appropriate websites</td>
</tr>
<tr>
<td>3. Conduct a simple search using a search bar</td>
</tr>
<tr>
<td>4. Type an address in the address bar</td>
</tr>
</tbody>
</table>

PA Standards/Anchors:

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

Eligible Content:

- 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:

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

Assessments:

- Computer Based Project
- Teacher Observation
- Test
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<table>
<thead>
<tr>
<th>Grade level:</th>
<th>2nd Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course Title:</td>
<td>Computers</td>
</tr>
<tr>
<td>Topic/Concept:</td>
<td>Publishing and Illustrating A Writing Piece</td>
</tr>
<tr>
<td>Time Allotment:</td>
<td>3 class sessions</td>
</tr>
<tr>
<td>Unit Sequence:</td>
<td>14</td>
</tr>
</tbody>
</table>

**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:**

<table>
<thead>
<tr>
<th>PA Standard 3.7.1 D</th>
</tr>
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**Eligible Content:**

- 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:**

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

**Assessments:**

- Computer Based Project
- Teacher Observation