

Grade level: 5

Course Title: Computers

Topic/Concept: Computer Use Inventory

Time Allotment: 1 session

Unit Sequence: 1

Major Concepts to be learned:

1. Self Evaluation of personal computer use
2. Goal setting for upcoming year

Expected Skills to be demonstrated:

1. Reflection of personal use of computer
2. Ability to type using a template
3. Appropriate goal setting for the year ahead

PA Standards/Anchors:

Eligible Content:

PA Standard 3.6.4 D
PA Standard 3.6.4 C

- Explain and demonstrate the basic use of input and output devices
- Explain and demonstrate the use of internal and external storage devices
- Apply basic word processing skills

Instructional Strategies:

Assessments:

Independent Student Practice on Computers

- Computer Based Project (Application Assignment)
- 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: 5

Course Title: Computers

Topic/Concept: Keyboarding

Time Allotment: 32 sessions

Unit Sequence: 2

Major Concepts to be learned:

1. Using keyboarding software students will learn the proper finger position and finger reach for all of the keys on the keyboard.
2. Students will accurately type the lessons that are presented to them.
3. Students will achieve proficient levels of knowledge for all of the letter keys on the keyboard
4. Students will increase typing speed

Expected Skills to be demonstrated:

1. Knowledge of the proper finger position for all the keys on the keyboard
2. Proficient use of all of the keys on the keyboard (lowercase and uppercase letters)
3. Accuracy levels in typing that range in the 95% and above
4. Typing speed progression moving into double digit WPM typing speeds

PA Standards/Anchors:

Eligible Content:

| | |
|--|--|
| PA Standard 3.6.4 C PA Standard 3.6.4 D | <ul style="list-style-type: none">• Apply specific instructional software• Explain and demonstrate the basic use of input and output devices (keyboard, mouse, printer) |
|--|--|

Instructional Strategies:

Assessments:

| | |
|---|--|
| Teacher Demonstration on the Smartboard Guided Student Practice on Computers via Software Application Independent Student Practice on Computers | <ul style="list-style-type: none">• Typing Program Lesson Tests• Accuracy Readings in the Program• Progress in the Program displayed on keyboard |
|---|--|

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

Grade level: 5

Course Title: Computers

Topic/Concept: How to search the Internet

Time Allotment: 4 sessions

Unit Sequence: 3

Major Concepts to be learned:

1. Various Search Engines and the advantages and disadvantages of each of them
2. Using Boolean search strategies to reduce search results
3. Choosing the right search engine and Boolean search terms to quickly locate information on the Internet

Expected Skills to be demonstrated:

1. Ability to use a variety of different search engines (Google, Ask, Yahoo Kids, etc)
2. Knowledge of the various Boolean search terms and understand how they affect your search results (and, not, or)
3. Knowledge of the how quotation marks impact a Internet search
4. How to quickly locate information on the Internet using the Boolean search techniques

PA Standards/Anchors:

Eligible Content:

PA Standard 3.6.4 B
PA Standard 3.6.4 E

- Apply a Web Browser
- Use On-line searches to answer age appropriate questions
- Identify electronic communication methods that exist in a community

Instructional Strategies:

Assessments:

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

- Computer Based Project (Application Assignment)
- 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: 5

Course Title: Computers

Topic/Concept: Wikispaces (Online Discussions)

Time Allotment: 1 session

Unit Sequence: 4

Major Concepts to be learned:

1. How to post and reply to appropriate online discussion
2. How to view responses to posted discussions and continue with the discussion
3. How online discussions can be used to in education

Expected Skills to be demonstrated:

1. Ability to post and reply to online discussions
2. Ability to view online discussions
3. Ability to gather information to become more informed using an online discussion

PA Standards/Anchors:

Eligible Content:

PA Standard 3.6.4 B
PA Standard 3.6.4 D
PA Standard 3.6.4 E

- Identify electronic communication methods that exist in a community
- Apply operating system skills to perform basic computer tasks

Instructional Strategies:

Assessments:

Teacher Demonstration on the Smartboard
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: 5

Course Title: Computers

Topic/Concept: Wikispaces (Editing Webpages)

Time Allotment: 1 session

Unit Sequence: 5

Major Concepts to be learned:

1. How to edit a wikipage(webpage) by adding text
2. How to edit a wikipage(Webpage) by adjusting the format of the text
3. How to use a wikipage as a method for educating others

Expected Skills to be demonstrated:

1. Ability to edit a wikipage with text
2. Ability to edit the text on a wikipage using the editor toolbar and the T tool.
3. Ability to improve the overall look of a webpage through text formatting (centering, style, size, color, etc)
4. Knowledge of the information that should be included on an informative wikipage
5. Ability to use various wikipages to become educated on a topic

PA Standards/Anchors:

Eligible Content:

| | |
|--|--|
| PA Standard 3.6.4 D PA Standard 3.6.4 E | <ul style="list-style-type: none">• Apply operating system skills to perform basic computer tasks• Apply basic word processing skills• Apply a Web Browser |
|--|--|

Instructional Strategies:

Assessments:

| | |
|--|--|
| Teacher Demonstration on the Smartboard Guided Student Practice on Computers Independent Student Practice on Computers | <ul style="list-style-type: none">• 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: 5

Course Title: Computers

Topic/Concept: Wikispaces (Uploading Files)

Time Allotment: 2 session

Unit Sequence: 6

Major Concepts to be learned:

1. How to upload files from a computer to a wikipage
2. The benefits of uploading files to the Internet
3. How uploading files can support research

Expected Skills to be demonstrated:

1. Ability to use the editor toolbar to upload a file from a computer onto a webpage
2. Ability to locate the file within the folders of the computer
3. Understanding the benefits of uploading files to a webpage to support statements

PA Standards/Anchors:

Eligible Content:

| | |
|---|---|
| PA Standard 3.6.4 D PA Standard 3.6.4 E PA Standard 3.6.4 B | <ul style="list-style-type: none">• Apply operating system skills to perform basic computer tasks• Apply a Web Browser• Demonstrate the ability to communicate an idea by applying basic sketching and drawing techniques |
|---|---|

Instructional Strategies:

Assessments:

| | |
|--|--|
| Teacher Demonstration on the Smartboard Guided Student Practice on Computers Independent Student Practice on Computers | <ul style="list-style-type: none">• 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: 5

Course Title: Computers

Topic/Concept: Digital Photography

Time Allotment: 2 sessions

Unit Sequence: 7

Major Concepts to be learned:

1. The features of a digital camera (capture button, focus, zoom, preview, and video)
2. The digital image and how it is processed by the computer
3. How to capture a still image and a video clip using a digital camera

Expected Skills to be demonstrated:

1. Knowledge of the features and options of a digital camera
2. Knowledge of the process of digital image capture
3. Ability to capture a clear still image using a digital camera
4. Ability to capture a clear video clip using a digital camera

PA Standards/Anchors:

Eligible Content:

PA Standard 3.6.4 B
PA Standard 3.6.4 C
PA Standard 3.6.4 D

- Identify electronic communication methods that exist in a community)
- Describe appropriate image generating techniques (photography)
- Apply operating system skills to perform basic computer tasks
- Explain and demonstrate the basic use of input and output devices

Instructional Strategies:

Assessments:

Teacher Demonstration on the Smartboard
Guided Student Practice with Cameras
Independent Student Practice with Cameras

- Completed Interview
- Picture quality
- Digital Photography Worksheet

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

Grade level: 5

Course Title: Computers

Topic/Concept: Interviewing

Time Allotment: 1 sessions

Unit Sequence: 8

Major Concepts to be learned:

1. How to conduct a proper interview
2. How to use a computer template to type the information gathered from the interview

Expected Skills to be demonstrated:

1. Ability to conduct an effective interview
2. Ability to use a computer template to record the responses of the interview.

PA Standards/Anchors:

Eligible Content:

PA Standard 3.6.4 B
PA Standard 3.6.4 C
PA Standard 3.6.4 D

- Identify electronic communication methods that exist in a community)
- Apply operating system skills to perform basic computer tasks
- Explain and demonstrate the basic use of input and output devices

Instructional Strategies:

Assessments:

Teacher Demonstration on the Smartboard
Guided Student Practice with Cameras
Independent Student Practice with Cameras

- Completed Interview
- Picture quality
- Digital Photography Worksheet

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

Grade level: 5

Course Title: Computers

Topic/Concept: Microsoft Powerpoint

Time Allotment: 6 sessions

Unit Sequence: 9

Major Concepts to be learned:

1. How to create a slide show presentation
2. How to add text, designs, clip art, sound, animations, and custom animations to a slide show presentation
3. How to present a slide show presentation in powerpoint using the smartboard

Expected Skills to be demonstrated:

1. Ability to effectively layout a slide show presentation that shares the information gathered in an interview
2. Ability to add and adjust text, clip art, animated clip art, sound, and slide transitions to customize a presentation
3. Knowledge of how to add photographs and video clips to a slide show presentation
4. Ability to add custom animation to a slide show to control the pace of the presentation
5. Ability to adjust the backgrounds of each individual slide in a slide show presentation
6. Knowledge of how to present a slideshow using a smartboard and bulleted points as talking points.

PA Standards/Anchors:

Eligible Content:

| | |
|--|---|
| PA Standard 3.6.4 C PA Standard 3.6.4 D | <ul style="list-style-type: none">• Identify and use simple graphics and presentation graphic materials generated by the computer• Explain and demonstrate the basic use of input and output devices |
|--|---|

Instructional Strategies:

Assessments:

| | |
|--|--|
| Teacher Demonstration on the Smartboard Student Interaction Using Smartboard Guided Student Practice on Computers Independent Student Practice on Computers | <ul style="list-style-type: none">• Interview• Computer Based Project (Graded with Rubric)• Presentation |
|--|--|

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

Grade level: 5

Course Title: Computers

Topic/Concept: Microsoft Excel

Time Allotment: 5 sessions

Unit Sequence: 10

Major Concepts to be learned:

1. Adding and Adjusting Font in an Excel Document
2. Adjusting column height and width to fit the contents of the cells
3. Creating an address database to be merged into a Word document

Expected Skills to be demonstrated:

1. Ability to create a database in Excel that will allow for merging data into Word
2. Ability to add and adjust font within a cell
3. Ability to alter the appearance of the database using cell color, header positioning, and borders
4. Knowledge of how to adjust the page layout and scale to allow for single page printing
5. Knowledge of how to use the database to create address labels in Microsoft Word using the Mail Merge feature

PA Standards/Anchors:

Eligible Content:

PA Standard 3.6.4 B
PA Standard 3.6.4 C
PA Standard 3.6.4 D

- Identify and use simple graphics and presentation graphic materials generated by the computer
- Explain and demonstrate the basic use of input and output devices
- Identify graphic reproduction methods

Instructional Strategies:

Assessments:

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

- Computer Based Test
- Computer Based Project (Application Assignment)

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

Grade level: 5

Course Title: Computers

Topic/Concept: Microsoft Word

Time Allotment: 3 sessions

Unit Sequence: 11

Major Concepts to be learned:

1. Review of the main features in the Home, Insert, Page Layout, and Review Tabs in Microsoft Word
2. Review of how to adjust text, clip art and photographs, shapes, word art, and the page layout of a document
3. Review of how to conduct a spelling and grammar check in a Word Document

Expected Skills to be demonstrated:

1. Ability to adjust text using the font and paragraph features in the Home Tab
2. Ability to adjust a document using the Insert Tab and inserting and adjusting Photos, Clip Art, Shapes, and Word Art
3. Ability to adjust the document layout using the page layout tab (orientation, borders, columns)
4. Ability to conduct a spelling and grammar check during and after typing

PA Standards/Anchors:

Eligible Content:

PA Standard 3.6.4 C
PA Standard 3.6.4 D

- Explain and demonstrate the basic use of input and output devices
- Apply basic word processing skills

Instructional Strategies:

Assessments:

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

- Written Test
- Computer Based Project (Application Assignment)
- 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: 5

Course Title: Computers

Topic/Concept: Publishing Ecosystems Brochure

Time Allotment: 4 sessions

Unit Sequence: 12

Major Concepts to be learned:

1. How to publish a piece of writing in a brochure format (columns and trifold)
2. How to adjust the font to fit within the confines of a template
3. How to add photographs and clip art to the brochure to illustrate each fold

Expected Skills to be demonstrated:

1. Ability to type within a template, using columns and limitations
2. Ability to adjust font to fit within the confines of a template (size and style)
3. Ability to illustrate the brochure using photographs and clip art
4. Knowledge of how to personalize all components of a template to match personal style and the theme of the brochure

PA Standards/Anchors:

Eligible Content:

PA Standard 3.6.4 C
PA Standard 3.6.4 D

- Apply basic word processing skills
- Explain and demonstrate the basic use of input and output devices (keyboard, mouse, printer)

Instructional Strategies:

Assessments:

Guided Student Practice on Computers
Independent Student Practice on Computers

- Computer Based Project (Graded with Rubric)

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

Grade level: 5

Course Title: Computers

Topic/Concept: Storyboard Writing

Time Allotment: 4 sessions

Unit Sequence: 13

Major Concepts to be learned:

1. How to write a storyboard about a group of photographs
2. How to present a story using a photoslide show and the storyboard

Expected Skills to be demonstrated:

1. Ability to construct a storyboard using digital images and text boxes
2. Ability to type the narration of a story within the storyboard template
3. Ability to present the story using the storyboard and photo slide show

PA Standards/Anchors:

Eligible Content:

PA Standard 3.6.4 B
PA Standard 3.6.4 C
PA Standard 3.6.4 D

- Identify electronic communication methods that exist in a community
- Describe appropriate image generating techniques
- Explain and demonstrate the use of internal and external storage devices

Instructional Strategies:

Assessments:

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

- Computer Based Project (Graded with Rubric)

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