Educational Technology and Online Learning 2

Course Summary: In this course, students use appropriate technology tools and resources to complete projects, and solve problems. Students use software to draw, write, organize, and present information and data. Students learn listening and organizational skills and set attainable learning goals. Students become responsible users of technology as they learn about Internet safety and appropriate online behavior.

Course Outline

1. **Introduction and Tux Paint**
   1. Words Ending with -ck
      - Academic: Describe the correct sound for the -ck blend
      - Academic: Identify and read words ending with the -ck blend
      - Academic: Define and identify the rhythm in a poem
      - Technology: Demonstrate how to use the Stamp tool in Tux Paint to illustrate a poem
      - Technology: Demonstrate how to use the formatting options for the Paint and Text tools, to add words ending with -ck
   2. Diagraphs sh and th
      - Academic: Identify the correct sounds for the sh and th digraphs
      - Academic: Discuss and read words with the /sh/ and /th/ sounds
      - Academic: Relate knowledge of the correct sounds for the sh and th digraph to identify other words that have the /sh/ and /th/ sounds
      - Technology: Demonstrate how to use the Text tool and Stamp tool in Tux Paint to type and illustrate words with sh and th
      - Technology: Demonstrate how to color code the /sh/ and /th/ sounds in words using the Color and Custom palettes
   3. R-Controlled Vowel Words: er, ir, ur
      - Academic: Identify the correct sounds for the r-controlled vowels er, ir, and ur
      - Academic: Demonstrate how to read words with er, ir, and ur
      - Academic: Relate knowledge of the correct /er/ sound for the r-controlled vowels er, ir, and ur to identify other words with er, ir, and ur vowel patterns
      - Technology: Demonstrate how to use the Stamp tool in Tux Paint to illustrate words with er, ir, and ur
      - Technology: Demonstrate how to use the formatting options for the Paint and Text tools to identify the er, ir, and ur r-controlled patterns in words
   4. Telling Time
      - Academic: Demonstrate how to tell time to the hour, half hour, and quarter hour in accurate minute increments
      - Academic: Show the hour and minute hand on an analog clock
      - Technology: Demonstrate how to use the analog clock stamp to show increments of time
      - Technology: Apply the Paint tool to draw the minute and hour hand

- Technology: Demonstrate how to use the Color palette to select brush colors
2. **Microsoft® Word**
    1. Words with Consonant Blends: -ng and -nk
        - Academic: Identify the correct sounds for -ng and -nk consonant blends
        - Academic: Demonstrate how to read words with -ng and -nk consonant blends
        - Academic: Relate knowledge of -ng and -nk consonant blends to identify other words with -ng and -nk consonant blends
        - Technology: Demonstrate how to insert and format tables in a document, including typing and changing the size of text, and change cell fill color using the Fill drop-down menu
        - Technology: Demonstrate how to highlight consonant blends using the Highlighter drop-down menu
    2. Identifying Common and Proper Nouns
        - Academic: Identify common and proper nouns and recognize each in a sentence
        - Academic: Compose sentences using common and proper nouns
        - Technology: Demonstrate how to type words and sentences in a document
        - Technology: Demonstrate how to use the Shift key to type capital letters
        - Technology: Demonstrate how to type common and proper nouns into the correct column within a table
    3. Rhyming Words
        - Academic: Identify word families to create rhyming words
        - Academic: Identify words that rhyme with one another
        - Technology: Demonstrate how to type words and sentences within a document
        - Technology: Demonstrate how to highlight word families using the Highlighter tool
        - Technology: Demonstrate how to create and insert WordArt to label a word family
    4. Reading and Writing Poetry
        - Academic: Discuss and create a poem using rhyming words
        - Academic: Identify and describe rhyming words in a poem
        - Technology: Demonstrate how to type words and begin separate lines in a poem using the Enter key
        - Technology: Demonstrate how to properly use the Center Align button to align the poem in the center of a page
    5. Writing an Acrostic Poem
        - Academic: Identify the structure of an acrostic poem
        - Academic: Create a named acrostic poem
        - Technology: Demonstrate how to select text using the select all keyboard shortcut Ctrl + A
        - Technology: Demonstrate how to format text using the Font Face and Font Color drop-down menus
    6. Writing a Haiku
        - Academic: Identify a haiku poem and describe its structure
        - Academic: Compose a haiku poem
        - Technology: Demonstrate how to center align text using the Center Align button
        - Technology: Demonstrate how to format text, change font face, and change font size using the Font Size drop-down menu

- Technology: Demonstrate how to insert clip art using the Clip Art button in the Insert ribbon
7. Identifying Characters in Dialogue
    - Academic: Identify the different characters speaking within a story and a poem
    - Academic: Analyze character interactions and view points within a story dialogue
    - Technology: Identify different characters within a story dialogue, and color code them using the Highlighter tool
    - Technology: Demonstrate how to insert quotation marks when typing a sentence in a document
8. Compare and Contrast
    - Academic: Create, analyze, compare, and contrast still life artwork
    - Academic: Describe patterns or themes found in artwork
    - Technology: Demonstrate how to create a table to compare and contrast
    - Technology: Demonstrate how to format text within a table
    - Technology: Demonstrate inserting an image from the computer into a document using the Picture button
9. Writing a Book Report
    - Academic: Compose a book report
    - Academic: Paraphrase text and identify the main idea and supporting details
    - Technology: Demonstrate how to type words, sentences, and numbers to create a book report
    - Technology: Demonstrate how to use the Spelling and Grammar tool to make corrections

3. **Microsoft® PowerPoint**
    1. Sequencing Events
        - Academic: Identify and explain sequence words
        - Technology: Demonstrate how to use the Slide Sorter View to move slides within a presentation
        - Technology: Identify the main idea and create a title slide using the New Slide drop-down menu
        - Technology: Demonstrate how to incorporate appropriate clip art in a presentation to illustrate the main idea
        - Technology: Demonstrate how to add text to individual slides within a presentation
    2. Sequencing Events II
        - Academic: Identify sequencing words and explain the order of events
        - Technology: Demonstrate how to use the Slide Sorter View to sequence slides within a presentation
        - Technology: Create a new title slide and add text to individual slides within a presentation
        - Technology: Demonstrate how to incorporate appropriate clip art for a presentation
        - Technology: Apply a different font color using the Font color drop-down menu to identify sequencing words

4. **Microsoft® Excel**
    1. Identifying Compound Words
        - Academic: Identify and explain the two words that make up a compound word
        - Academic: Identify compound words

- Technology: Demonstrate how to select and type in cells and navigate between worksheets
- Technology: Apply borders to cells using the Borders drop-down menu in the Home ribbon
2. Identifying Prefixes and Suffixes
- Academic: Identify and understand the meaning of prefixes and suffixes
- Academic: Demonstrate how to break down words into root words, prefixes, and suffixes
- Technology: Apply and change the color of borders using the Borders drop-down menu in the Home ribbon
- Technology: Explain how to type in cells and demonstrate individual cell navigation
3. Place Value
- Academic: Identify how many ones, tens, and hundreds are in a number
- Academic: Demonstrate how to write a number in standard form
- Technology: Explain how to type in cells and demonstrate individual cell navigation
- Technology: Apply cell borders using the Borders drop-down menu
- Technology: Format and apply a cell fill color using the Fill drop-down menu
4. Making 10 to Add 9
- Academic: Demonstrate how to use ten-frames to help make groups of 10 in order to add 9
- Academic: Solve addition facts to gain fluency and demonstrate an increased sense of number awareness and relationships
- Technology: Demonstrate how use the Fill drop-down menu to change the cell fill color in order to practice addition facts and make groups of 10
- Technology: Demonstrate how to type numbers in cells
5. Making 10 to Add 8
- Academic: Demonstrate how to use ten-frames to help make groups of 10 in order to add 8
- Academic: Solve addition facts to gain fluency and demonstrate an increased sense of number awareness and relationships
- Technology: Demonstrate how to use the Fill drop-down menu to change the fill color of cells in order to practice addition facts and make groups of 10
- Technology: Demonstrate how to type numbers within cells
6. Adding with Regrouping
- Academic: Explain and use math vocabulary: addend and sum
- Academic: Solve addition problems involving regrouping
- Academic: Evaluate addition strategies, including drawing the addition problem and using virtual manipulatives
- Technology: Demonstrate and evaluate how Microsoft® Excel can be helpful in checking answers
- Technology: Demonstrate how to navigate individual cells in a workbook
7. Thinking Addition to 10 to Subtract
- Academic: Demonstrate how to subtract using the concept of addition
- Academic: Explain how addition and subtraction strategies work
- Academic: Investigate fact families in order to understand the relationship between subtraction and addition
- Technology: Demonstrate how to use the Fill drop-down menu to change the cell fill color
- Technology: Demonstrate how to type numbers within cells

5. **Keyboarding**

1. Keyboarding Numbers and Letters
   - Identify and type the letters A–Z on the keyboard
   - Identify and type the numbers 0–9 on the keyboard
2. Keyboarding Rows
   - Identify the home row of the keyboard
   - Identify the rows above and below the home row
   - Demonstrate how to type letters above and below the home row
3. Keyboarding Practice Animals
   - Identify and type the letters A–Z on the keyboard
   - Identify and demonstrate how to type words relating to four animals
4. Keyboarding Review
   - Identify the home row keys
   - Apply proper touch typing skills to type the letters J, F, D, K, and the space bar
   - Demonstrate correct posture and finger position while typing
5. Y and T
   - Apply proper touch typing skills to type the letters Y and T
   - Demonstrate proper touch typing posture and finger position while typing
6. B and N
   - Apply proper touch typing skills to type the letters B and N
   - Demonstrate proper touch typing posture and finger position while typing
7. U and R
   - Apply proper touch typing skills to type the letters U and R
   - Demonstrate proper touch typing posture and finger position while typing
8. V and M
   - Apply proper touch typing skills to type the letters V and M
   - Demonstrate proper touch typing posture and finger position while typing
9. E and I
   - Apply proper touch typing skills to type the letters E and I
   - Demonstrate proper touch typing posture and finger position while typing
10. Review
   - Apply proper touch typing skills to type simple words using the keys learned in Lessons 1–10
   - Demonstrate proper touch typing posture and finger position while typing

6. **Study Skills**
   1. Creating a Proper Work Environment
      - Identify characteristics of a study space
      - Evaluate an environment to determine what makes it a good study space
   2. Listening and Following Directions
      - Identify attributes of a good listener
      - Explain why it is important to have good listening skills
   3. Visualization
      - Identify how timelines and pictures make new information easier to understand
      - Explain how timelines and pictures provide a way to show what is known about events
   4. Organization
      - Explain why a schedule is an important organizational tool for learning
      - Create a study schedule
   5. Online Learning
      - Compare online learning with bricks-and-mortar schools
      - Analyze feelings about new aspects of online learning

6. Goal Setting
   - Identify the difference between short-term and long-term goals
   - Create one long-term goal and two short-term goals
7. **Internet Safety**
   1. Cyber Citizenship: Part 1
      - Distinguish between the community and the cyber community
      - Demonstrate an understanding that children need to have the help of an adult when exploring the cyber community
   2. Cyber Citizenship: Part 2
      - Describe cyberspace as a community of real people
      - Discuss how unkind communication in cyberspace is the same as unkind communication in the physical world
      - Identify appropriate online behavior as netiquette
      - Explain that children need to have the help of an adult when exploring the cyber community
      - Distinguish between bullying in the community and in cyberspace
   3. Cybersecurity
      - Describe e-mail as a means for communication
      - Explain that computers can be damaged by e-mails containing computer viruses
      - Explain safe procedures for using e-mail
   4. Personal Safety: Part 1
      - Explain the need to make responsible choices to ensure personal safety when using the Internet
      - Identify ways to ensure personal safety in cyberspace
   5. Personal Safety: Part 2
      - Explain the need to make responsible choices to ensure personal safety when using the Internet
      - Identify ways to ensure personal safety in cyberspace
   6. Acceptable Use Policy
      - Create usable and age-appropriate guidelines for safe and responsible technology use
      - Discuss consequences for unacceptable use
      - Develop procedures for responding to unsafe or inappropriate online situations