Educational Technology and Online Learning 1

Course Summary: In this course, students build on foundational skills while using software to draw, type, and format text, and create presentations to support academic skills. 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. Ending Consonant l
        - Academic: Demonstrate how to pronounce the correct consonant sound when seeing the letter l
        - Academic: Identify and compose sentences using words that end with the letter l
        - Technology: Demonstrate how to use the Text tool to type words and sentences
        - Technology: Demonstrate how to format text by changing the font style and size
        - Technology: Demonstrate how to select and incorporate images from a stamp gallery that correspond to words that end with the letter l
    2. Ending Consonant m
        - Academic: Demonstrate how to pronounce the correct consonant sound for the letter m
        - Academic: Identify and compose sentences using words that end with the letter m
        - Technology: Demonstrate how to use the Text tool to write words
        - Technology: Demonstrate how to format text by changing the size and font type
        - Technology: Demonstrate how to use stamp images that correspond to words ending with the letter m and use them to illustrate the words
    3. Ending Consonant p
        - Academic: Demonstrate how to pronounce the correct consonant sound for the letter p
        - Academic: Identify and compose sentences using words that end with the letter p
        - Technology: Demonstrate how to use the Paint tool to write words ending with the letter p
        - Technology: Demonstrate how to format the brush stroke, shape, and size within the Brushes selector
    4. Ending Consonant r
        - Academic: Demonstrate how to pronounce the correct consonant sound for the letter r
        - Academic: Interpret pictures to identify words that end with the letter r

- Academic: Identify and compose sentences using words that end with the letter r
- Technology: Demonstrate how to use the Magic tools including the calligraphy, metal paint, and rainbow effects to practice writing letter r words

5. High Frequency Words: after, again, an, any, by
   - Academic: Identify, read, and compose sentences using high frequency words
   - Academic: Identify high frequency words in context
   - Technology: Demonstrate how to use the Text tool in Tux Paint to type key words
   - Technology: Demonstrate how to format font style and size within the Letters selector
   - Technology: Demonstrate how to use the Stamp tool to illustrate high frequency words

6. Short a Words
   - Academic: Identify and read words with the short /a/ vowel sound
   - Academic: Demonstrate how to correctly pronounce words with the short /a/ vowel sound
   - Technology: Demonstrate how to use the Paint tool to write words with the short /a/ sound
   - Technology: Demonstrate how to format the brush stroke, shape, size, and color in order to color code the short a vowel pattern in key words
   - Technology: Demonstrate how to use the Stamp tool to illustrate words with the short /a/ vowel sound

7. Short e Words
   - Academic: Identify, read, and write sentences using words with the short /e/ vowel sound
   - Academic: Demonstrate how to correctly pronounce words with the short /e/ vowel sound
   - Technology: Demonstrate how to use the Paint tool to write words with the short /e/ sound
   - Technology: Demonstrate how to format the brush stroke, shape, size, and color in order to color code the short e vowel pattern in key words
   - Technology: Demonstrate how to use the Stamp tool to illustrate words with the short /e/ vowel sound

8. Short i Words
   - Academic: Identify, read, and write sentences using words with the short /i/ vowel sound
   - Academic: Demonstrate how to correctly pronounce words with the short /i/ vowel sound
   - Technology: Demonstrate how to use the Paint tool to write words with the short /i/ sound
   - Technology: Demonstrate how to format the brush stroke, shape, size, and color in order to color code the short i vowel pattern in key words
   - Technology: Demonstrate how to use the Stamp tool to illustrate words with the short /i/ vowel sound

9. Short o Words
   - Academic: Identify, read, and write words with the short /o/ vowel sound
   - Academic: Demonstrate how to correctly pronounce words with the short /o/ vowel sound

- Technology: Demonstrate how to use the Text tool to type words with the short /o/ sound
- Technology: Demonstrate how to format text by changing the font style, size, and color
- Technology: Demonstrate how to use the Stamp tool to illustrate a poster

10. Short u Words
- Academic: Identify, read, and write words with the short /u/ vowel sound
- Academic: Demonstrate how to correctly pronounce words with the short /u/ vowel sound
- Technology: Demonstrate how to use the Text tool to type words with the short /u/ sound
- Technology: Demonstrate how to use the Text tool to format font style and size
- Technology: Demonstrate how to use the Stamp and Shapes tools to illustrate words or sentences

11. Long a Words: Vowel Pattern a_e
- Academic: Identify, read, and write words and sentences using words with the long /a/ vowel sound
- Academic: Demonstrate how to correctly pronounce words with the long /a/ vowel sound
- Technology: Demonstrate how to use the Paint tool to write words with the long /a/ vowel sound
- Technology: Demonstrate how to format the brush stroke, shape, size, and color in order to color code the long a vowel pattern a_e.
- Technology: Demonstrate how to use the Stamp tool to illustrate keys words and sentences

12. Long o Words: Vowel Pattern o_e
- Academic: Identify, read, and write words and sentences using words with the long /o/ vowel sound
- Academic: Demonstrate how to correctly pronounce words with the long /o/ vowel sound
- Technology: Demonstrate how to use the Paint tool to write words with the long /o/ vowel sound
- Technology: Demonstrate how to format the brush stroke, shape, size, and color in order to color code the long o vowel pattern o_e

13. Long e Words: Vowel Patterns ee and ea
- Academic: Identify, read, and write words and sentences with the long /e/ sound and vowel patterns ee and ea
- Academic: Demonstrate how to correctly pronounce words with the long /e/ vowel sound
- Technology: Demonstrate how to use the Paint tool to write words with the long /e/ vowel sound
- Technology: Demonstrate how to format the brush stroke, shape, size, and color in order to color code the long e vowel patterns ee and ea
- Technology: Demonstrate how to use the Stamp tool to illustrate words with the long /e/ vowel sound

14. Silly Sentences
- Academic: Identify pairs of rhyming words that have the same vowel sounds
- Academic: Compose sentences with pairs of rhyming words using words from previous lessons
- Technology: Demonstrate how to use the Text tool to type sentences with pairs of rhyming words

- Technology: Demonstrate how to use the Paint tool to write a sentence with a pair of rhyming words
- Technology: Demonstrate how to use the Stamp tool to illustrate a sentence with a pair of rhyming words

15. Long i Words: Vowel Pattern i_e
- Academic: Identify, read, and write words and sentences with the long /i/ vowel sound
- Academic: Demonstrate how to correctly pronounce words with the long /i/ vowel sound
- Technology: Demonstrate how to use the Text tool and Paint tool in Tux Paint
- Technology: Demonstrate how to use the Stamp and Shapes tools to create math problems

16. Long u Words: Vowel Pattern u_e
- Academic: Identify, read, and write words and sentences with the long /u/ vowel sound
- Academic: Demonstrate how to correctly pronounce words with the long /u/ vowel sound
- Technology: Demonstrate how to use the Text tool and Paint tool to make a poster
- Technology: Demonstrate how to format the brush stroke, shape, size, and color in order to color code the long u vowel pattern u_e
- Technology: Demonstrate how to use the Stamp tool to illustrate keys words or sentences

17. Subtraction to 10
- Academic: Solve subtraction problems within 10
- Academic: Construct subtraction equations using pictures, numbers, and symbols
- Technology: Demonstrate how to use the Stamp tool to illustrate subtraction problems within 10
- Technology: Demonstrate how to use the Stamp tool to add numbers and symbols to create an equation

18. Telling Time to the Hour and Half Hour
- Academic: Demonstrate telling time to the hour and half hour using analog clocks
- Technology: Illustrate time to the hour and half hour using the Stamp and Paint tools
- Technology: Distinguish between the hour and minute hand using different brush colors

19. The Best Pet Ever
- Academic: Describe the characteristics of a real or imaginary pet
- Technology: Demonstrate how to use Tux Paint to draw a picture
- Technology: Demonstrate how to select colors using the Custom palette

2. **Microsoft® Word**
   1. High Frequency Words
      - Academic: Identify and read high frequency words
      - Academic: Compose sentences using high frequency words
      - Technology: Demonstrate how to type text and use the Enter key to begin new lines in a document
      - Technology: Demonstrate how to italicize, bold, and underline text using font formatting buttons in the Home ribbon
      - Technology: Demonstrate how to apply a different font face, color, and size using the Font Face, Font Color, and Font Size drop-down menus

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2. How Is the Character Feeling?
   - Academic: Describe how a character in a story feels
   - Academic: Analyze how a character in a story feels using key words
   - Technology: Demonstrate how to type words in meaningful sentences
   - Technology: Demonstrate how to adjust and apply formatting to font using menus and buttons within the Home ribbon
3. Descriptive Words
   - Academic: Describe pictures using descriptive words
   - Academic: Compose sentences using descriptive words
   - Technology: Demonstrate how to type words in meaningful sentences
   - Technology: Demonstrate how to change the font face and font color using the Font Face and Font Size drop-down menus
   - Technology: Demonstrate how to insert clip art to illustrate key words
4. Counting the Sides of Shapes
   - Academic: Identify and classify shapes based on their attributes
   - Technology: Demonstrate how to insert and format shapes in a document using the Shapes drop-down menu
   - Technology: Demonstrate how to insert a text box using the Text Box drop-down menu, and type numbers within a text box
   - Technology: Demonstrate how to insert a table using the Text Box drop-down menu, add the correct number of rows and columns, and format the table in a document
5. Highlighting Main Idea
   - Academic: Identify the main idea in informational text
   - Technology: Demonstrate how to highlight the main idea of an article using the Highlighter tool
   - Technology: Demonstrate how to use Word Art to create titles in a document
   - Technology: Demonstrate how to add meaningful clip art to an article to express the main idea
6. Navigating Text Features
   - Academic: Identify text features in informational text
   - Academic: Analyze and assess the use of text features in informational text
   - Technology: Demonstrate how to insert text boxes to add labels or captions to pictures
   - Technology: Demonstrate how to change the style of text
   - Technology: Demonstrate how to highlight main ideas using the Highlighter tool
7. Creating a Poster
   - Academic: Plan and design an informational poster
   - Academic: Create an informational poster using text features
   - Technology: Demonstrate how to insert pictures from the computer into a document
   - Technology: Demonstrate how to use font formatting features, insert shapes, clip art, and add text boxes in a document

3. **Microsoft® PowerPoint**
   1. Classifying Information
      - Academic: Identify similarities among objects
      - Academic: Classify and categorize objects based on their similarities
      - Technology: Demonstrate how to build a presentation by inserting new slides using the New Slide drop-down menu
      - Technology: Demonstrate how to incorporate titles within text boxes on each slide to name a category

- Technology: Illustrate classified objects using clip art
  2. The Food Chain
     - Academic: Identify and sequence plants and animals in a food chain
     - Academic: Create a food chain to illustrate how animals satisfy their need for food
     - Technology: Demonstrate how to incorporate new slides in order to build a presentation
     - Technology: Demonstrate typing text and adding clip art to illustrate the food chain
     - Technology: Demonstrate how to select and moves slides in order to create a food chain
4. **Microsoft® Excel**
   1. Skip Counting by 5s and 10s
      - Academic: Identify number patterns for multiples of 5 and 10
      - Academic: Demonstrate skip counting in increments of 5 and 10 utilizing a hundreds chart
      - Technology: Demonstrate navigating between cells using the mouse
      - Technology: Demonstrate changing the cell fill color using the Fill drop-down menu
   2. Parts of 10
      - Academic: Identify and illustrate parts of 10 using a ten-frame
      - Technology: Demonstrate typing numbers in cells and navigating between worksheets
      - Technology: Demonstrate changing the cell fill color using the Fill drop-down menu to illustrate parts of 10
   3. Finding the Missing Part
      - Academic: Demonstrate counting on a hundreds chart
      - Academic: Identify the missing part of 10
      - Academic: Complete a part-part-whole table
      - Technology: Demonstrate typing numbers in cells and navigating between worksheets
      - Technology: Demonstrate changing the cell fill color using the Fill drop-down menu
   4. Graphing Data
      - Academic: Collect data in order to generate graphs and charts in Microsoft® Excel
      - Academic: Analyze graphs to identify and compare the amount in each category
      - Academic: Identify the similarities and differences between a bar graph and a pie chart
      - Technology: Demonstrate how to type in cells to add data
      - Technology: Analyze graphs to compare data
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 use the keyboard to type the home row keys and the rows above and below the home row
   3. J, F, Space Bar

- Apply proper touch typing skills to type the letters J and F and the space bar
- Demonstrate correct posture and finger position while typing
4. D and K
- Apply proper touch typing skills to type the letters D and K
- Demonstrate correct posture and finger position while typing
5. S and L
- Apply proper touch typing skills to type the letters S and L
- Demonstrate correct posture and finger position while typing
6. A and ;
- Apply proper touch typing skills to type the letter A and ; (semicolon)
- Demonstrate correct posture and finger position while typing
7. G and H
- Apply proper touch typing skills to type the letters G and H
- Demonstrate correct posture and finger position while typing

6. **Study Skills**
1. Creating a Proper Work Environment
- Describe the importance of having a special work environment
- Identify ways to develop a work environment
- Identify good study habits
- Apply digital tools and resources to address a variety of tasks and problems
2. Listening and Following Directions
- Recognize the importance of understanding and following directions
- Identify skills in listening and following directions
- Apply digital tools and resources to illustrate skills in listening and following directions
3. Using Visuals
- Identify how maps offer ways to understand new information about places
- Explain how maps demonstrate what is known about places
- Communicate about technology using developmentally appropriate and accurate terminology
- Apply digital tools and resources to address a variety of tasks and problems
- Demonstrate the ability to navigate in virtual environments such as electronic books, simulation software, and websites
4. Organization
- Learn the importance of managing your time and activities
- List steps to prepare for daily study and activities
- Communicate about technology using developmentally appropriate and accurate terminology
- Independently apply digital tools and resources to address a variety of tasks and problems
- Demonstrate the ability to navigate in virtual environments such as electronic books, simulation software, and websites
5. Online Learning
- Compare and contrast online learning with a bricks-and-mortar school
- Describe how an online student may use a computer
- Apply digital tools and resources to address a variety of tasks and problems
- Communicate about technology using developmentally appropriate and accurate terminology
6. Goal Setting
- Explain what goals are
- Create a personal goal and a learning goal

- Discuss technology using developmentally appropriate and accurate terminology

7. **Internet Safety**
    1. Cyber Community
        - Demonstrate an understanding of cyberspace as a community of real people
        - Demonstrate an understanding that children need to have the help of an adult when exploring the cyber community
    2. Cyber Citizenship
        - Explain that bullying is intentionally hurting or being mean to someone
        - Identify the differences between offline and online bullying
    3. Cybersecurity
        - Explore e-mail as a means of communication
        - Identify when an e-mail or communication on the Internet can make a person feel uncomfortable
        - Create a strategy for responding to communication that is inappropriate
        - Demonstrate safe and cooperative use of technology
    4. Personal Safety, Part 1
        - Describe how computers can become infected with viruses
        - Discuss the concept of what a computer virus is, how a virus spreads, the damage a virus can cause, and virus prevention techniques
        - Demonstrate safe and cooperative use of technology
    5. Personal Safety, Part 2
        - Explain the basic danger of revealing personal information online
        - Explain that there are strangers in the cyber community, just as there are strangers in the physical community
        - Apply learning by making informed choices about revealing information online
        - Demonstrate safe and cooperative use of technology

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