K Tech, Unit #1, Technology, Basic Computer Skills

Content Area: **Technology**
Course(s): **Technology**
Time Period: **September**
Length: **40 weeks**
Status: **Published**

Enduring Understanding

To make work more efficient and productive it is important to use a computer properly.

Essential Questions

- **How do computers help us with our work?**
- **How do we use computers effectively?**

Core Curriculum Content Standards

TECH.8.1.2.A.4	**Demonstrate developmentally appropriate navigation skills in virtual environments (i.e. games, museums).**
TECH.8.1.2.A.3	**Compare the common uses of at least two different digital applications and identify the advantages and disadvantages of using each.**
TECH.8.1.2.A.1	**Identify the basic features of a digital device and explain its purpose.**
TECH.8.1.2.A.CS1	**Understand and use technology systems.**
TECH.8.2.2.A.CS1	**The characteristics and scope of technology.**

Student Learning Objectives

Students will:

Turn on/off computer

Log in/out

Open program

Use icons

Introduce mouse and keyboarding skills

Understand and use technology terms correctly

Use a browser to access a website

Identify reasons why we use computers

Identify differences between a computer and a touch-screen tablet

Use various apps and websites to reinforce skills from throughout the curriculum

Instructional Activities

Various websites such as:

PBS Kids

ABCYa

Starfall

City Creator

Paint

Apps such as:

Word Bingo

Letters & Numbers

Math Bingo

What Goes Together

Interdisciplinary Connections

Language Arts

- Sight words
- Letter recognition
- Letter sounds

Math

- Numbers

- Sequencing

Texts and Resources

Computers with internet connection

Various websites such as:

PBS Kids

ABCYa

Starfall

City Creator

Paint

Tablets/iPads

Assessment

- **Observation**
- **Participation**

K Tech, Unit #2, Technology, Basic Word Processing

Content Area: **Technology**
Course(s): **Technology**
Time Period: **May**
Length: **10 weeks**
Status: **Published**

Enduring Understanding

A word processing program can communicate ideas.

Essential Questions

- **Why do I need to know how to use a word processing program?**

Core Curriculum Content Standards

TECH.8.1.2.A.CS2	**Select and use applications effectively and productively.**
TEC.K-2.8.1.2.A.4	**Create a document with text using a word processing program.**

Student Learning Objectives

Students will:

Open a word processor.

Type simple words and/or phrases.

Save a document.

Print a document.

Use the space bar, return key, delete, backspace, cap lock.

Instructional Activities

Type first and last name.

Type numbers 1-20.

Type simple sentences.

Increase font size.

Use save and print features.

Interdisciplinary Connections

Language Arts

- Sight words
- Letter recognition
- Using upper/lower case and punctuation

Math

- Numbers
- Sequencing

Texts and Resources

MS Word

Wordpad

Computers

Printer

Assessment

- **Observation**
- **Participation**
- **Printout of completed document**

K Tech, Unit #3, Technology, Coding

Content Area: **Technology**
Course(s): **Technology**
Time Period: **January**
Length: **4 weeks**
Status: **Published**

Enduring Understanding

A computer takes input through a series of written commands (algorithms) and then interprets and displays information as output.

Essential Questions

How does computational thinking build and enhance problem solving?

Core Curriculum Content Standards

TECH.8.2.2.E.5	**Use appropriate terms in conversation (e.g., basic vocabulary words: input, output, the operating system, debug, and algorithm)**
TECH.8.2.2.E.4	**Debug an algorithm (i.e., correct an error).**
TECH.8.2.2.E.2	**Demonstrate an understanding of how a computer takes input through a series of written commands and then interprets and displays information as output.**
TECH.8.2.2.E.1	**List and demonstrate the steps to an everyday task.**
TECH.8.2.2.E.CS1	**Computational thinking and computer programming as tools used in design and engineering.**
TECH.8.2.2.E.3	**Create algorithms (a sets of instructions) using a pre-defined set of commands (e.g., to move a student or a character through a maze).**

Student Learning Objectives

Demonstrate the basic input/output functionality of a computer.

Understand that an algorithm is a set of instructions designed to compete a task.

Instructional Activities

Create simple algorithms (Treasure Hunts) recorded in a word document or pencil and paper using simple algorithms.

Challenge classmate to complete the "Treasure Hunts."

Interdisciplinary Connections

Language Arts: Recording written commands (algorithms)

Texts and Resources

Paper and pencil

Word processor

Treasures such as stickers, pencils, erasers.

Assessment

Proper completion of treasure hunt.

Coding rubric

Creation of algorithms with 80% proficiency.