# First Grade Technology Class

| | |
|---|---|
| **Unit:** | **Computer Parts / Bookmarking a website/ Computer troubleshooting -volume** |
| **Big Ideas:** | **Reviewing the different parts of the computer (keyboard, mouse, headphones, monitor). The steps to login to the computer. Demonstrate how to set a bookmark and what it is used for.<br>Refresh of using the mouse** |
| **Unit Essential Questions:** | **What are the different parts of a computer and what do they do? What is a bookmark on the computer? How do you adjust volume on the computer? How do you use the mouse to do different things on the computer such as clicking and double clicking?** |

| Concept & Pacing | New Emphasis (Pa Core Standard) | Key Vocabulary | Essential Questions | Mini-Lessons/Activities | Instructional Materials | Assessments |
|---|---|---|---|---|---|---|
| ***3 classes*** | 15.4.2.A: Identify various technologies used in the classroom and at home<br>15.4.2.B: Demonstrate responsible use of technology and equipment<br>15.4.2.D: Demonstrate the correct use of simple input technologies<br>15.4.2.L: With help and support, use web browser to locate content-specific websites. | *Computer parts (monitor, mouse, keyboard, headphones)<br>*Computer<br>*Bookmark<br>*Volume<br><br>*Click<br>*Double click | *What are the names of specific computer parts?<br>*What do certain computer parts do?<br>*How do we use this technology in school and at home?<br>*How do you hold a mouse?How do you click, drag, move a mouse?<br>* What is a bookmark?<br>*How do you bookmark a website?<br><br>*How do you adjust the volume on the computer? | *Technology review<br><br>*Bookmark my website<br><br>*Adjust speaker volume<br><br>***GCF mouse tutorial-do on their own as a review** | *My website (first grade review page for mouse activities)<br><br>*GCF mouse tutorial (on website-first grade review) | *Teacher observation |

| | |
|---|---|
| **Unit:** | **Keyboarding** |
| **Big Ideas:** | **Using proper posture. Locating letters with left and right hands. Locating homerow.** |
| **Unit Essential Questions:** | **How can knowing where the letters are on the keyboard help me? Why is using two hands on the keyboard better than one?** |

| Concept & Pacing | New Emphasis (Pa Core Standard) | Key Vocabulary | Essential Questions | Mini-Lessons/Activities | Instructional Materials | Assessments |
|---|---|---|---|---|---|---|
| | 15.4.2.B: Demonstrate responsible use of technology and equipment | *Keyboard<br>*Typing | *Why is using two hands better than one when using the computer? | *Discuss and demonstrate how two hands to type are better than one. | *Typetastic typing website<br>*Typing activity files for students to practice (4 files) | *Typing practice words (4 activities)<br><br>*Alphabet book |

| | | | | | | |
|---|---|---|---|---|---|---|
| *3 classes* | | | | *Demonstrate how knowing where the keys are helps go faster.<br>*Introduce Homerow (what it is, what keys are on it, how to place the fingers)<br>*Introduce typetastic (level 5 homerow) | *Adventures in keyboarding PowerPoint file<br><br>*Typing practice words—link on my website (4 activities)<br>*Alphabet keyboard book (link on my website)<br><br>*Spelling Words<br>*Typing Club Jr. | |

| **Unit:** | **Formatting in Google Docs/ major keyboard keys (caps lock, shift, enter)** |
|---|---|
| **Big Ideas:** | **Demonstrating how the major keys on the keyboard help us do things in Google docs. Formatting text and designing in Google Docs. Inserting an image in Google docs.** |
| **Unit Essential Questions:** | **What do these keys used for on the keyboard (enter, backspace, spacebar, num lock, caps lock)? How can we change the way words look using things like font, size, B, I, U and color? How do I insert and move an image?** |

| **Concept & Pacing** | **New Emphasis (Pa Core Standard)** | **Key Vocabulary** | **Essential Questions** | **Mini-Lessons/Activities** | **Instructional Materials** | **Assessments** |
|---|---|---|---|---|---|---|
| *5 classes for animal project*<br><br>*4-5 classes for other google doc typing activities /projects* | 15.4.2.D: Demonstrate the correct use of simple input technologies<br>15.4.2.B: Demonstrate responsible use of technology and equipment<br>15.4.2.G: With help and support, select and use various software/applications for an intended purpose. | *Enter<br>*Backspace<br>*Spacebar<br>*Num lock<br>*Caps lock<br>*Cursor<br>*Microsoft Word<br>*Font<br>*Bold<br>*Italic | *How can these major keyboard keys be used?<br>*How can keys such as enter, backspace, and num lock help us login to the computer?<br>*What is Google Docs?<br>*How can we change the way text looks in Google Docs?<br>*How can I insert and size an image? | * Using the major keys on the keyboard (All about the keyboard lesson with tasks)<br>*Formatting in Google Docs<br>*Animals I Like project<br>*Spelling words | *Using the major keys lesson<br>*Formatting in Google Docs<br>*Animals I like example<br><br>*Career project<br>*Typing words file<br>*Wordart letter and picture project | *Animals I like<br><br>*Career project<br>*Wordart letter and picture project |

| **Unit:** | **Internet Safety (Pause and Think Online)** |
|---|---|
| **Big Ideas:** | **Understand the importance of being safe, responsible and respectful online.** |

# First Grade Technology Class

| **Unit Essential Questions:** | **How do you stay safe when you are online?** | | | | | |
|---|---|---|---|---|---|---|
| **Concept & Pacing** | **New Emphasis (Pa Core Standard)** | **Key Vocabulary** | **Essential Questions** | **Mini-Lessons/Activities** | **Instructional Materials** | **Assessments** |
| *1-2 classes* | 15.4.2.B: Demonstrate responsible use of technology and equipment<br>15.3.2.T: With prompting and support, answer questions related to digital citizenship | *Online safety | *How can I go places safely on the computer?<br>*Should I go on websites without asking an adult? | *Pause and Think Online (lesson from Common sense education)<br>-Google slide of lesson | **Pause and Think Online (lesson from Common sense education)<br>-Google slide of lesson | *Teacher observation |
| **Unit:** | **Coding** | | | | | |
| **Big Ideas:** | **Identify and fix errors in a computer program to ensure it runs as intended. Create programs that include loops. Demonstrate block coding.** | | | | | |
| **Unit Essential Questions:** | **What is computer coding and how does it apply to computers, games, apps, and technology? How do you code using blocks?** | | | | | |
| **Concept & Pacing** | **New Emphasis (Pa Core Standard)** | **Key Vocabulary** | **Essential Questions** | **Mini-Lessons/Activities** | **Instructional Materials** | **Assessments** |
| *3 classes* | 15.3.5 M: Apply proper etiquette while using technology.<br>1A-AP-08: Model daily processes by creating and following algorithms (set of step-by-step instructions) to complete tasks.<br>1A-AP-11: Break down the steps needed to solve a problem into a pride sequence of instructions.<br>1A-AP-10: Develop programs with sequences and simple loops to express ideas or address a problem. | *Coding<br>*Block coding<br>*Loops | *How do you code using block coding?<br><br>*How can you test a program to see if it runs correctly?<br>*What is a loop? | *Coding video on brainpopJR. | *Demo of lessons assigned in code.org accounts<br><br>*Code.org<br>*Tynker | |