**Title of planned course:** Technology

**Grade Level:** 2

**Course Description:** Students will continue to apply skills while using iPads, as well as learn the basics of Google Chromebook operations, concepts, application, and online safety.

*Please note:*

- Click on the blue links throughout the document to access the suggested templates and links.
- Items in red will be completed during library class time by the library teacher. Classroom teachers are not responsible for teaching these skills but are encouraged to reinforce them.
## Suggested Sequence: Grade 2

**Major focus on Google Docs/Navigation**

**The following is a *suggested sequence* of skills and activities, which will allow students to meet all of the objectives in the curriculum. As an educator, please do what is best for your students given your grade-level academic curriculum and pacing.**

<table>
<thead>
<tr>
<th>Month</th>
<th>Major Themes</th>
<th>Minor Themes/Activities</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>September</strong></td>
<td>Expectations</td>
<td><em>Chromebook Slides</em></td>
</tr>
<tr>
<td></td>
<td></td>
<td><em>iPad Slides</em></td>
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<tr>
<td></td>
<td></td>
<td><em>WASD Acceptable Use Policy</em></td>
</tr>
<tr>
<td></td>
<td>Logging in to Google</td>
<td><em>Log-in Boot Camp</em></td>
</tr>
<tr>
<td></td>
<td>iPad applications</td>
<td><em>Start, close, and navigate programs/applications as directed</em></td>
</tr>
<tr>
<td><strong>October</strong></td>
<td>Google Docs</td>
<td><em>Create, name, and share a new document as directed</em></td>
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<tr>
<td></td>
<td></td>
<td><em>Typing activities, (name, spelling/vocabulary words, etc.)</em></td>
</tr>
<tr>
<td></td>
<td>Google Drive</td>
<td><em>Locate student and shared files</em></td>
</tr>
<tr>
<td></td>
<td>Digital Citizenship</td>
<td><em>Unit 3 lesson 1 of k-2 Digital Citizenship curriculum</em></td>
</tr>
<tr>
<td><strong>November</strong></td>
<td>Google Docs</td>
<td><em>Complete writing assignments in Google (using correct spacing); encourage to change font size and color</em></td>
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<tr>
<td></td>
<td></td>
<td><em>Weekly Word Processing</em></td>
</tr>
<tr>
<td></td>
<td></td>
<td><em>Vocabulary Table</em></td>
</tr>
<tr>
<td></td>
<td>Internet</td>
<td><em>Navigate a browser (back, forward buttons, and tab) as directed by teacher</em></td>
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<tr>
<td></td>
<td>Digital Citizenship</td>
<td><em>Unit 3 lesson 2 of k-2 Digital Citizenship curriculum</em></td>
</tr>
<tr>
<td><strong>December</strong></td>
<td>Google Classroom</td>
<td><em>Join class; navigate using links provided</em></td>
</tr>
<tr>
<td></td>
<td></td>
<td><em>Unit 3 lesson 3 of k-2 Digital Citizenship curriculum</em></td>
</tr>
<tr>
<td><strong>January</strong></td>
<td>Digital Citizenship</td>
<td><em>Unit 3 lesson 4 of k-2 Digital Citizenship curriculum</em></td>
</tr>
<tr>
<td></td>
<td>Google Docs</td>
<td><em>Complete writing assignments which involve inserting images</em></td>
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<tr>
<td></td>
<td></td>
<td><em>Weekly Word Processing</em></td>
</tr>
<tr>
<td></td>
<td></td>
<td><em>Vocabulary Table</em></td>
</tr>
<tr>
<td><strong>February</strong></td>
<td>Google Docs</td>
<td><em>Edit a document with several sentences/paragraphs of text with capitalization and punctuation errors.</em></td>
</tr>
<tr>
<td></td>
<td></td>
<td>(*introduce AFTER basic grammar has been taught)</td>
</tr>
<tr>
<td></td>
<td></td>
<td><em>Editing Assignment</em></td>
</tr>
<tr>
<td>Month</td>
<td>Activity</td>
<td>Description</td>
</tr>
<tr>
<td>-------</td>
<td>---------------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>March</td>
<td>Google Slides</td>
<td>Teacher-directed Class Google Slides presentation (ex. About me, ABC Book, etc.)</td>
</tr>
<tr>
<td></td>
<td>Research Practices</td>
<td>Use teacher provided links to find answers to content-related questions</td>
</tr>
<tr>
<td></td>
<td>Digital Citizenship</td>
<td><a href="https://example.com">Unit 3 lesson 5 of k-2 Digital Citizenship curriculum</a></td>
</tr>
<tr>
<td>April</td>
<td>Google Apps</td>
<td>Using Apps within Curriculum</td>
</tr>
<tr>
<td>May</td>
<td>Coding</td>
<td>Basic exposure to coding via Hour of Code (code.org)</td>
</tr>
</tbody>
</table>
Curriculum Scope & Sequence

Title of planned course:  Technology

Grade Level:  2

Unit:  Basic Device Operations and Concepts

Essential content/objectives:  At end of the unit, students will be able to:

● Use touch screen to open and close out apps
● Efficiently log in to and sign out of Google
● Demonstrate proficiency in pointing, clicking, using mouse, scrolling, maximizing and closing out of programs
● Identify and use parts of a keyboard: letters, numbers, spacebar, enter, backspace, shift, tab, caps lock, arrows
● Print assignments using assigned printer
● Use appropriate sitting position and touch typing
● Navigate through Google Apps: Drive, Docs, Slides, and Classroom
● Demonstrate proper use of technology equipment

Core Activities:  Students will complete/participate in the following:

● Chromebook Log-in Boot Camp: practice logging in to Google 10 times on 5-6 different occasions as needed.
● Use iPad apps appropriately as directed by teacher.
● Access Google Drive to locate student files and shared files.
● Typing Activities in Google Docs: first and last name, spelling words, vocabulary words, word wall words, word families, simple sentences, stories, poems.  See Weekly Word Processing website for ideas.
● Join teacher-created Google Classroom.  Independently navigate posted hyperlinks.
● Follow teacher directions to click on this, click on that (use of mouse, opening icons, etc.)
● Create, name, and share a new document in Google Docs as directed by teacher.

Instructional Methods:

● Demonstration
● Explicit instruction
● Activities

Assessments:

● Teacher created assessments
● Observations
Curriculum Scope & Sequence

**Title of planned course:** Technology

**Grade Level:** 2

**Unit:** Device Applications

**Essential content/objectives:** At end of the unit, students will be able to:

- Practice word processing skills during writing activities using the writing processes in Google Docs
  - Use grade level capitalization and basic punctuation (commas, periods)
- Use the following icons on standard toolbar:
  - **Review:** font size, color
  - **Introduce:** font formatting (name, bold, italics, underline, highlight); undo, redo, zoom
- Insert images into a document
- Print assignments using assigned printer
- Access and use Google Slides to view sample slide show
- Access and use Google Slides to create a slide
- Use Google Classroom to navigate hyperlinks
- Use apps and software programs appropriate to grade level curriculum
- Use coding to complete a task
- Use second grade level technology vocabulary (see Grade Level Vocabulary Appendix for specific terms)

**Core Activities:** Students will complete/participate in the following:

- Complete writing assignments using Google Docs, in which students use proper capitalization and punctuation. Explicitly teach students to print completed assignments.
- Typing Activities in Google Docs: first and last name, spelling words, vocabulary words, word wall words, word families, simple sentences, stories, poems.
  - Practice changing the font size, color, formatting, use all caps, etc.
  - For added reinforcement, have students insert images to match word processing.
  - See example [Vocabulary Table](#) and modify as desired
- **Weekly Word Processing** assignments which provide an opportunity for typing skills. Insert clipart and graphics to match word processing.
  - Explicitly teach students to insert images from the web OR from a shared Google Drive folder into a writing assignment
- Editing assignment: Prepare a document with several sentences of text with capitalization and punctuation errors. Have students edit this document. See [example assignment](#).
- Use Google Classroom to navigate teacher-assigned hyperlinks.
- Use grade level apps to practice skills
- Share Google Slides presentation with students and teach them how to navigate by using arrows, space bar, enter to get to the next screen.
- Create a Class Google Slides Presentation. Assign each student to complete their own slide related to a teacher-assigned topic (teacher directed)
  - Google Slides will be taught during library class time with library teacher.
  - **Sample Topic Ideas**
    - ABC book (any subject--math, science, etc.)
    - About Me book (each students writes something about themselves)
    - Memory Book
• How-To book
• Cause/Effect book (similar to *If you give a mouse a cookie…*)
• Example ABC book template
  o Tips on Making Digital Books
  • The Hour of Code or other coding activity (simple exposure-- code.org OR iPad apps including Hopscotch, Daisy the Dinosaur, Cargo-Bot)
    o This coding activity is a **basic exposure** to computer programming. Consider incorporating a coding activity around the holidays or at the end of the year.

**Instructional Methods:**
• Demonstration
• Explicit instruction
• Activities

**Assessments:**
• Teacher created assessments
• Observations
Curriculum Scope & Sequence

Title of planned course: Technology

Grade Level: 2

Unit: Internet Applications and Safety

Essential content/objectives: At end of the unit, students will be able to:

- Participate in teacher-demonstrated internet applications and searches using approved hyperlinks
- Understand their responsibilities as digital citizens
- Create secure passwords in order to protect their private information and accounts online
- Describe how the Internet connects themselves with others
- Learn appropriate ways to handle spam
- Understand the Acceptable Use Policy and how it is related to copyright issues

Core Activities: Students will complete/participate in the following:

- Teacher explicit demonstration: show internet navigation, where to type addresses and click; how to access search engines.
  - View books, movies, author websites, online games and activities as directed by the teacher.
  - Some research to be completed during scheduled library class time
- Cyber citizenship and safety online (by watching videos, participating in activities, lessons);
  Grade 2 should complete Unit 3 of K-2 Digital Citizenship curriculum (5 lessons)
  - Lessons 1-4 to be completed during scheduled library class time; Classroom teacher is responsible for lesson 5
- FBI Online safety lessons

Instructional Methods:

- Demonstration
- Video
- Explicit instruction
- Activities

Assessments:

- Teacher created assessments
- Observations
Appendix A:

Technology Related Vocabulary: Grade 2

1. **Bold** – heavy-faced (dark) font
2. **Deselect** – to click off a selected item
3. **Drag** – moving the mouse while holding the button down to move objects on the screen
4. **Files** – data that is stored in the computer
5. **Folder** – holds files
6. **Highlight** – to select, usually by clicking or dragging with the mouse
7. **Internet** – worldwide network of computers
8. **Italics** – a font style with characters that slant upward to the right
9. **Menu** – a list of commands or options to choose from
10. **Printer** – prints information on paper
11. **Select** – to pick or choose
Appendix B:

Technology Links and Resources: Grade 2

*Click on the blue links to access the templates and links.

**If you use the provided templates, please click “File”>> “Make a Copy,” to create your own copy in your Drive.

- [Rules and Expectations for using the iPad Google Slides Presentation](#)
- [Rules and Expectations for using the Chromebook Google Slides Presentation](#)
- [Vocabulary Table](#)
- [Grade 2 Editing](#)
- [ABC Book Template in Google Slides](#)

**Sample Curriculum Assignment Templates**

Grades K-2 Resources

- [Tips for managing logging in to Google Classroom (k-2)](#)
- [Google Drive and 2nd Grade](#)
- [Google Apps/Google Classroom with iPads](#)
- [QR Code Cheat Sheet](#)
- [Using QR Codes (games, access websites, self checking)](#)
- [Using QR Codes (games, access websites, self checking)](#)
  - QR Code task cards, worksheets, or scavenger hunts are awesome! Students can do the assignment and check it on their own without having to wait for you.
- [K-2 Interactive Sites](#)- comprehensive list of interactive games and sites organized by subject, geared for K-2; many require Flash
- [Unite for Literacy](#)- Site with digital books great for the youngest readers to practice reading; books are organized by category/subject; narration available 40 languages
- [Pocket Zoo App](#) - Great app for researching animals
- [ABC Phonics Word Family](#)- app for iPad (free)
- [Sight Words 1 & 2](#) - app for iPad (a lot is free, but requires subscription for full access)
- [Telestory](#) - app for iPad- Students can write, direct, and star in their own TV show---could do a pretend news report or music video; great assessment tool (and fun, too!)
- [FunFonix](#) - Free phonics warehouse of resources and materials that are designed to move quickly through phonics rules (printable worksheets, workbooks, printable and online games)

**Sites and Apps for All Grades (by Subject)**

- Technology
  - [The Chromebook Academy](#)
    - Google Site with a ton of resources (great for typing tutorials, worksheets, among other resources)
  - [K5 Technology Lesson Plans](#)
    - Amazing Resource! Grade level lesson plans, iPad integration, and great templates/graphic organizers for Google-based projects (slides, sheets, etc.)
  - [Google Apps](#)
    - [Google Docs Scavenger Hunt](#)
    - [Google Slides Scavenger Hunt](#)
    - [Google Slides Cheat Sheet](#)
Making Digital Books using Google Slides
Google Classroom Tutorials and Blog Posts with Alice Keeler

**Keyboarding Games**

**Presentation/Instructional Sites/Apps**

- **Nearpod.com** - Interactive PowerPoint type presentations (free to sign up, many free presentations to download, and free to create your own—limited storage under the free subscription)
- **LearnZillion** - videos and lessons plans to provide extra practice or instruction for students in math and language arts; great for flipping the classroom
- **Edpuzzle** - Create Interactive videos; Find/create a video on youtube, crop a video, explain it with your own voice and embed quizzes at any time
- **Educreations** - create video lessons to provide extra practice or instruction for students; students can create as a means of assessment; great for flipping the classroom
- **Screencastify** - (Chrome Extension)—record your entire desktop, an application, current browser tab or just your webcam and add narration; great for flipping the classroom

**Assessments/Study tools**

- **Kahoot!** - game-based learning and trivia platform perfect for quiz/test reviews
- **Socrative** - great formative assessment or test review site; launch quizzes, space race games, or exit tickets; see responses in real time
- **Quizizz** - another interactive formative assessment too; self-paced quizzes to review, assess, and engage—in class and at home.
- **Quizlet** - Digital vocabulary flash card creator
- **GoFormative** - awesome formative assessment tool; similar in a way to Google Forms, but with so many more capabilities
- **Padlet** - online bulletin board site and app; great for sharing notes with group work. Assign discussion questions, exit tickets, and Do Now activities

**Cross-curricular**

- **Interactive Sites for Education** - comprehensive list of interactive games and sites organized by subject; TONS of awesome activities and games!
  - Includes math, science, social studies, language arts, music, art, brain teasers, Spanish, typing, and holiday-based activities
- **MrNussbaum** - comprehensive list of interactive games and sites organized by subject; TONS of awesome activities and games
- **FuelTheBrain.com** - collection of printables and interactive games organized by subject; also has teacher articles/guides; students can create their own mini books
- **ABCya** - comprehensive list of interactive games and sites organized by subject
- **TurtleDiary** - games, videos, printables, quizzes, and teaching tools organized by subject
- **PrimaryGames.com** - despite the title, this site has tons of games and lessons for grades pk-6
- **Boom Learning** - self-checking digital task cards (a lot of free sets, but many require purchase (available on Boom or Teachers Pay Teachers); if you use task cards, you have to try Boom!
**Science**
- American Museum of Natural History - Kids Ology: games, stories, videos, and hands on activities related to and organized by different science topics
- Scholastic Study Jams: videos, songs, quizzes for every science topic imaginable
- Lawrence Hall of Science: well-designed and highly educational science activities and investigations
- Explore Live Web Cams: live webcams that show countless animals and habitats; some videos have narration and speaking from experts
- Arkive.org: tons of engaging videos, lessons, games, and activities related to animal species and nature

**Math**
- ProdigyGame: video game style math game, involving fantasy, battles, wizards, etc. Curriculum aligned and student approved. Super engaging!
- Math Games: fantastic resource for practicing Common Core math skills; organized by topic and grade
- Freckle: aka Front Row; assign or have students work through various math concepts, as well as math fact practice
- Sumdog: Math & ELA standards aligned adaptive learning for grades K-8; math is free to use, ELA requires subscriptions
- Khanacademy: assign standards-aligned practice, videos, and articles.
- NCTM Illuminations: lessons and interactive activities, aligned with either NCTM or Common Core Standards; organized by grade level/topic; a lot of the interactive activities are free to use, but many of the lessons require an NCTM membership
- Scholastic Study Jams: videos, songs, quizzes for countless math topics

**Language Arts**
- ReadWorks: library of nonfiction and literary articles with quizzes; able to print or assign digitally; differentiated levels available
-ReadWriteThink: Excellent free resource for all things reading and writing: lesson plans, printables, interactive activities, support
- Newsela: assign articles related current events and every subject; differentiated levels available
- Freckle: aka Front Row; assign or have students work through comprehension passages, but also word study/vocabulary, and individual skill work
- TheStoryStarter: site that generates random story starters to give your students a start to a creative story.
- Storybird: site for students to create their own digital storybooks

**Music and Art**
- MetKids
- ArtsEdge
- Virtuoso: digital keyboard iTunes and Google Play app
- TheColor.com: online digital coloring pages
- **Safe Research Sites**
  - http://www.kidzsearch.com/
  - http://quinturakids.com/
  - http://kidrex.org/
  - http://kidsclick.org/

- **ESL**
  - Manythings.org - website designed for people studying ESL; There are quizzes, word games, word puzzles, proverbs, slang expressions, anagrams, a random-sentence generator and other computer assisted language learning activities.
  - EnglishMediaLab - website designed for people studying ESL; There are reading, vocabulary, and grammar lessons, interactive activities, games, puzzles, and pronunciation tips

- **Coding**
  - Code.org
  - Scratch
  - Tynker
  - Hopscotch

- **Digital Citizenship and Internet Safety**
  - **Acceptable Use Policy** - student-friendly Acceptable Use contract for students to sign at the beginning of the year
  - **Common Sense Education: Digital Citizenship**
    - Resource for digital citizenship lessons plans, games, assessments, posters, ideas.
    - Free to sign up and use (so many incredible resources!)
  - **FBI Safe Online Searching** (grades 3-8)
    - Lessons embedded in interactive games
  - **Youtube Channel: Planet Nutshell- NetSafe**
    - Short videos (2-3 minutes) of various Internet safety concepts and rules, organized by grade level (K-3, 4-6)
  - **Youtube Channel: Common Sense Education**
    - Digital Citizenship and Media Literacy: Short videos (1-4 minutes) of various Internet safety concepts and rules (geared for older students, but you may find something you want to use)
    - Tech tips and resources for teachers
  - Nearpod.com
    - If you use Nearpod (iPad app or Web), there are a lot of free Digital Citizenship presentations you can use. Just search “Digital Citizenship”
  - **Digital Citizenship Poster** (upper grades)