Title of planned course:  Technology

Grade Level: 4

Course Description: Students will increase knowledge of basic 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 4**

*Major focus on Google Classroom/Slides*

** 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>September</th>
<th>Major Themes</th>
<th>Minor Themes/Activities</th>
</tr>
</thead>
<tbody>
<tr>
<td>Expectations</td>
<td>Chromebook Slides</td>
<td>WASD Acceptable Use Policy</td>
</tr>
<tr>
<td>Logging in to Google</td>
<td>Log-in Boot Camp if needed</td>
<td></td>
</tr>
<tr>
<td>Google Classroom</td>
<td>Join class; navigate using links provided</td>
<td></td>
</tr>
<tr>
<td>Google Docs</td>
<td>Google Docs Scavenger Hunt</td>
<td></td>
</tr>
<tr>
<td>Complete writing assignments in Google (proper alignment and spacing; teach double spaced)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Google Drive</td>
<td>Create a folder; organize files into 2-3 folders</td>
<td></td>
</tr>
<tr>
<td>Internet</td>
<td>Add frequently used websites to shelf for ease of access; navigate browser/links as directed by the teacher</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>October</th>
<th>Major Themes</th>
<th>Minor Themes/Activities</th>
</tr>
</thead>
<tbody>
<tr>
<td>Google Classroom</td>
<td>Complete &amp; turn in assignments</td>
<td></td>
</tr>
<tr>
<td>Respond to discussion questions</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Google Mail</td>
<td>Access, navigate, organize (continued yearlong)</td>
<td></td>
</tr>
<tr>
<td>Google Docs</td>
<td>Use basic keyboard shortcuts (cut, copy, paste)</td>
<td></td>
</tr>
<tr>
<td>Shortcuts Practice Assignment</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Digital Citizenship</td>
<td>Unit 2 lesson 1 of 3-5 Digital Citizenship curriculum</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>November</th>
<th>Major Themes</th>
<th>Minor Themes/Activities</th>
</tr>
</thead>
<tbody>
<tr>
<td>Google Docs</td>
<td>Use toolbar icons, word art, images, and change the page orientation.</td>
<td></td>
</tr>
<tr>
<td>&quot;My Favorite Place&quot; assignment</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Google Slides (Introduce/Review)</td>
<td>Google Slides Scavenger Hunt</td>
<td></td>
</tr>
<tr>
<td>Digital Citizenship</td>
<td>Unit 2 lesson 2 of 3-5 Digital Citizenship curriculum</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>December</th>
<th>Major Themes</th>
<th>Minor Themes/Activities</th>
</tr>
</thead>
<tbody>
<tr>
<td>Google Slides</td>
<td>Create a brochure using a teacher provided template</td>
<td></td>
</tr>
<tr>
<td>Typing</td>
<td>Consider reviewing explicit typing skills using <a href="https://www.typingclub.com">https://www.typingclub.com</a></td>
<td></td>
</tr>
<tr>
<td>Digital Citizenship</td>
<td>Unit 2 lesson 3 of 3-5 Digital Citizenship curriculum</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>January</th>
<th>Major Themes</th>
<th>Minor Themes/Activities</th>
</tr>
</thead>
<tbody>
<tr>
<td>Google Docs</td>
<td>Insert Table (Ex. sorting objects)</td>
<td></td>
</tr>
<tr>
<td>Month</td>
<td>Activity</td>
<td>Description</td>
</tr>
<tr>
<td>-------</td>
<td>----------</td>
<td>-------------</td>
</tr>
<tr>
<td>February</td>
<td>Google Slides</td>
<td>Create a 6-slide Google Slides presentation on an assigned topic (uses text, graphics, themes, and animations); class presentations when finished</td>
</tr>
<tr>
<td></td>
<td>Research Practices</td>
<td>Use a search engine to find answers to content-related questions (for Google Slides presentation); Focus on using keywords to search</td>
</tr>
<tr>
<td></td>
<td>Digital Citizenship</td>
<td>Unit 2 lesson 4 of 3-5 Digital Citizenship curriculum</td>
</tr>
<tr>
<td>March</td>
<td>Research Practices</td>
<td>Create a Works Cited page</td>
</tr>
<tr>
<td></td>
<td>Digital Citizenship</td>
<td>Unit 2 lesson 5 of 3-5 Digital Citizenship curriculum</td>
</tr>
<tr>
<td>April</td>
<td>Google Docs</td>
<td>Insert Table (Ex. pictograph)</td>
</tr>
<tr>
<td></td>
<td>Example assignment.</td>
<td></td>
</tr>
<tr>
<td>May</td>
<td>Coding</td>
<td>Basic exposure to coding via Hour of Code (code.org)</td>
</tr>
<tr>
<td></td>
<td>Typing</td>
<td>Consider reviewing explicit typing skills using <a href="https://www.typingclub.com">https://www.typingclub.com</a></td>
</tr>
<tr>
<td></td>
<td>Digital Citizenship</td>
<td>Unit 3 lesson 4 of 3-5 Digital Citizenship curriculum</td>
</tr>
</tbody>
</table>
Curriculum Scope & Sequence

**Title of planned course:** Technology

**Grade Level:** 4

**Unit:** Basic Chromebook Operations and Concepts

**Essential content/objectives:** At end of the unit, students will be able to:
- Efficiently log in to and sign out of Google
- Demonstrate proficiency in pointing, clicking, dragging, using mouse pad
- Locate and use all keys on the keyboard and use left-right hand placement to type
- Navigate through Google Apps, including Drive, Mail, Docs, Slides, and Classroom
- Print assignments using assigned printer
- Organize their Google Drive
- Organize their Google Mail
- Add frequently used websites to shelf for ease of access
- Demonstrate proper use of Chromebook equipment

**Core Activities:** Students will complete/participate in the following:
- Log-in Boot Camp: practice logging in 10 times on 2-3 different occasions as needed
- **Google Docs Scavenger Hunt**
- **Google Slides Scavenger Hunt**
- Use typing website (https://www.typingclub.com) to continue typing proficiency if needed (review--introduced and practiced in grade 3)
- Create 2-3 folders within Google Drive. Organize files by topic (ex. ELA, science, social studies)
- Join teacher-created Google Classroom. Independently navigate and complete posted assignments, questions, and announcements.
- Create, name, and share a new document in Google Docs and Slides.

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

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

Title of planned course: Technology

Grade Level: 4

Unit: Chromebook Applications

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

- Demonstrate word processing skills during writing activities using the writing processes in Google Docs
- Use the following icons on standard toolbar:
  - Review: undo, redo, zoom, font properties, formatting, insert images/drawings
  - Introduce: spacing and alignment; bullets and numbering
- Use basic shortcuts (cut, copy, paste)
- Change the orientation of a page in Google Docs
- Insert a table into one of Google's apps
- Format and manipulate images and graphics into a document
- Create a Google Slides presentation that has a text, images, and animations
- Create or choose a theme/background for a Google Slides presentation
- Present a Google Slides presentation
- Use Google Classroom to navigate links, participate in questions and discussions, and turn in assignments
- Print assignments using assigned printer
- Use coding to complete a task
- Use fourth grade level technology vocabulary (see Grade Level Vocabulary Appendix for specific terms)

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

- [Google Docs Scavenger Hunt](#)
- Complete writing assignments using Google Docs, in which students use proper capitalization, punctuation, spacing, and alignment (ex. require left aligned, double spaced); Instruct students to print completed assignments.
- Prepare a document with text for students to practice using basic shortcuts. See [example assignment](#).
- Create a document which requires students to use toolbar icons, word art, images, and change the page orientation. Use with any content area topic. See example assignment "[My Favorite Place](#)."
- Correctly complete Google Classroom discussion posts and questions.
- Turn in assignments on Google Classroom as assigned.
- Create a table to sort various objects by their properties. Teach students to center align text in the table. See [example assignment](#).
- Create a pictograph using data from a survey or other source--input data into a table created in Google Docs. Use images from the web or shapes to display data. See [example assignment](#).
- Create a brochure using Google Slides. See example templates below. Search web for other free templates.
  - Sample Topic Ideas
    - Travel brochure/famous landmark
    - State project
• Animal study
• Informational brochure about your class for next year
  • ^Click the link for info & a free template
• Create a 6 slide Google Slides presentation on an assigned topic. Include a title slide. Insert text and a graphic into each slide. Later, instruct students to change the background and add basic animations for each element of the slide. Present this to the class.
  o Google Slides will be taught during library class time with library teacher.
  o Sample Topic Ideas
    • Novel summary- choose 5 or more important scenes from a book. Insert a text summary and an image for each.
    • About Me- describe family, favorites (food, color, etc.), activities, school related topics, vacations
    • Animals- choose one and describe its animal classification, location in the world/ecosystem, habitat, adaptations
    • Native Americans- choose one tribe and describe their location, shelter, food, clothing, art
    • How to Survive 4th grade- describe the best parts, classwork tips, homework tips, behavior tips
    • Click here for other ideas
• The Hour of Code or other coding activity (code.org)
  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:  4

Unit:  Internet Applications and Safety

Essential content/objectives:  At end of the unit, students will be able to:
  ● Use internet browser to conduct research
  ● Use internet to reinforce skills learned in the classroom
  ● Create a Works Cited page
  ● Understand that private information needs to be protected
  ● Create secure passwords in order to protect their private information and accounts online
  ● Learn appropriate ways to deal with cyberbullying
  ● 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:
  ● Research project involving finding answers to content-related questions  Focus on the idea of using keywords in the search.  A final page will be a works cited
    ○ Research & Works Cited to be conducted during library class time with library teacher.
  ● Cyberbullying lessons/activities
  ● Cyber citizenship and safety online (by watching videos, participating in activities, lessons);  Grade 4 should complete Unit 2 of 3-5 Digital Citizenship curriculum (5 lessons); Cyberbullying lesson from Unit 3
    ○ Unit 2 Lessons 1-4 to be completed during scheduled library class time;  Classroom teacher is responsible for remaining 2 lessons
  ● FBI Online safety lessons

Instructional Methods:
  ● Demonstration
  ● Video
  ● Explicit instruction
  ● Activities

Assessments:
  ● Teacher created assessments
  ● Observations
Appendix A:

Technology Related Vocabulary: Grade 4

1. Align – position text on a screen either centered, left or right
2. Animations – moving graphics on a computer screen
3. Email – electronic mail sent from one computer to another
4. Launch – start a program
5. Layout – the arrangement of text and graphics in a document or information in a database
6. Page orientation – direction information is laid out on a computer screen or printed page (landscape vs. horizontal)
7. Shortcuts – one or more keys you press on the keyboard to complete a task
8. Template – predesigned document to which information is added
9. Toggle – switch between open programs
10. Transitions – special effects used to go from one slide to another in a slide show
11. Web browser – program used to view web pages
**Appendix B:**

Technology Links and Resources: Grade 4

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

Sample Curriculum Assignment Templates

**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 Chromebook Google Slides Presentation
- Google Docs Scavenger Hunt
- Google Slides Scavenger Hunt
- Using Google Shortcuts
- Page Orientation/Formatting: My Favorite Place
- Create a Table
- Create a Pictograph
- Sample Google Slides Brochure Ideas
  - State project
  - Animal study
  - Informational brochure about your class for next year (click for info and free template)
- Grade 4 Animals Google Slides
- Grade 4 Native Americans Google Slides
- Grade 3-4 About Me Google Slides
- Vocabulary Table

**Grades 3-4 Resources**

- Keyboard labeling worksheets
- Webquest creator and search tool
- Quill.Org - free writing and grammar activities
- NoRedInk - more writing and grammar activities; differentiated for students with sentences and material based on student interests; many free assignments/activities, but a subscription required for full access
- 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
- Daily Writing Prompts - writing prompts for every day of the year, with many focused on monthly events (ex. Holidays, special birthdays, etc.)
- Every-Day Edits - collection of short paragraphs with grammatical errors for students to edit; organized by month, with many focused on monthly events. Great practice for students!

**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 tool; 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!

○ **Quia**- interactive activities and quizzes for virtually every subject/topic imaginable; many free assignments/activities, but a subscription required for full access; Flash player required

### 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://quinturakids.com/](http://quinturakids.com/)
- [http://kidrex.org/](http://kidrex.org/)
- [http://kidsclick.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**

**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)