

Amphitheater Public Schools



2021-2022

Technology Skills Scope &
Sequence
Articulated by Grade Level (K-12)

Amphitheater Public Schools

TECHNOLOGY SKILLS SCOPE & SEQUENCE TEAM

Participants who worked on the revision and articulation of the Technology Skills Scope & Sequence represented a range of positions, integration expertise, and teaching experience across the school district. The goal was to have representation from every school in the district.

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INTRODUCTION

In order to ensure that all students have the skills and knowledge necessary to become successful digital citizens, the Technology Skills Scope & Sequence Articulated by Grade Level guides educational practices to enhance the integration of technology. This also provides a framework to support the teaching and learning process while creating connections between various State and ISTE standards while allowing our students to have technological opportunities unique to our school district.

RATIONALE

The advancement of technology and the role it plays in education has altered the way individuals learn and teachers teach. Amphi learners need to be provided opportunities to use and develop their skill sets to fulfill the characteristics for our Portrait of a Graduate.

METHODOLOGY

Three teams were utilized and formed in the creation of this document- Instructional Technology Coaches, Teacher Evaluators, and Computer Science Integrators. Instructional Technology Coaches from each site gathered monthly to identify and review technology integration matrices from around the United States. This group identified strands, concepts and skills that were unique and important to the Amphi community. Following the selection of skills, drafts were shared with Technology Evaluators during site meetings and professional development training to acquire feedback and a list of skills was finalized. Surveys were administered for three years (2017, 2018, 2019), to gather insight from teachers on skill integration level- introduce, reinforce,

master. In March of 2020, Computer Science Integrators met to align the June 2018 Arizona Computer Science Standards and CIPA lessons to our Amphi Technology Skills Scope & Sequence Articulated by Grade Level K-12.

ORGANIZATION OF THE TECHNOLOGY SKILLS SCOPE & SEQUENCE

The Technology Skills Scope & Sequence Articulated by Grade Level is divided into five strands:

- Technology Operations & Concepts
- Communication & Collaboration
- File/Document Management
- Information Literacy
- Digital Identity & Online Safety

Each strand is divided into concepts and broken down by skills that students should know and be able to do. Each skill includes integration levels, performance objectives (PO's) associated with AZ Computer Science Standards, and Common Sense technology lessons associated with requirements for CIPA compliance.

This comprehensive document (Pre-K-High School) is designed so teachers can read integration level, performance objectives and identify associated Common Sense lessons for each skill across grade levels in order to incorporate previous, current and future concepts. The document is separated into two sections, Pre-K through Grade 5, and Grades 6 through High School.

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Standards Writing

Amphi Tech Skills Scope and Sequence ATS04-S1C1-03 (Grade 4, Strand 1, Concept 1, Skill 3)
AZ Computer Science Standards K.CS.D.1 (Grade K, Concept, Subconcept, Standard)

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Strands and Concepts Overview

Strand 1: Technology Operations & Concepts

Demonstrate proficiency in digital concepts regarding hardware and software through the use of various devices and applications.

Concept 1: Components	Hardware, user settings
Concept 2: Keyboarding	Finger placement, shortcuts
Concept 3: Word Processing	Revising, formatting, layout, editing
Concept 4: Spreadsheets	Formulas, cells, graph and charts

Strand 2: Communication & Collaboration

Demonstrate effective communication through the use of digital applications as an individual and in a group setting.

Concept 1: Presentations	Types, visually appealing
Concept 2: Digital Environment	Learning management system
Concept 3: Cooperative Groups	Effective Collaboration

Strand 3: File & Document Management

Demonstrate effective organization skills allowing accessibility across digital devices on and off of the network.

Concept 1: Organization	Filing and management systems
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Strand 4: Information Literacy (Internet Searching & Online Databases)

Demonstrate the ability to use technology to enhance critical thinking and research while identifying and evaluating resources.

Concept 1: Research Tools	Research organization in various environments
Concept 2: Source Evaluation	Media choices and research options
Concept 3: Navigation	Web tools and environments
Concept 4: Acceptable Use, Copyright, Plagiarism	Appropriate use of resources

Strand 5: Digital Identity & Online Safety

Demonstrate social and ethical responsibility while using technology at school, home and in society.

Concept 1: Digital identify	Footprint, personal identity
Concept 2: Online Safety	Cyberbullying
Concept 3: Networking Etiquette	Relationships
Concept 4: User Responsibility	Common Sense

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Pre-Kinder to 5th Grade

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Strand 1: Technology Operations & Concepts

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Strand 1: Technology Operations & Concepts

Demonstrate proficiency in digital concepts regarding hardware and software through the use of various devices and applications.

Concept 1: Components Hardware and user settings								
SKILL		Pre-K	Kindergarten	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5
1	Identify and correctly use the basic components of the computer: monitor, keyboard, mouse, headphones, ports, and printers.		Introduce K.CS.D.1	Reinforce 1.CS.D.1	Mastery 2.CS.HS.1	Mastery 3.CS.D.1	Mastery	Mastery
2	Effectively utilize individualized accounts while logging on/off and shutting down devices		Introduce K.CS.D.1 K.IC.SLE.1	Reinforce 1.CS.D.1 1.IC.SLE.1	Mastery 2.NI.C.1 2.IC.SLE.1	Mastery	Mastery	Mastery
3	Use desktop icons, windows and menus to open and close applications and documents; understand difference between closing and quitting applications		Introduce K.CS.D1	Reinforce 1.CS.D.1	Reinforce 2.CS.D.1	Reinforce	Mastery	Mastery
4	Effectively use a mouse or trackpad to point and click		Introduce K.CS.D1	Reinforce 1.CS.D.1	Mastery 2.CS.D.1	Mastery	Mastery	Mastery

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5	Access and make a choice from a drop-down menu		Introduce K.CS.D.1	Reinforce 1.CS.D.1	Mastery 2.DA.S.1	Mastery 3.CS.HS.1 3.DA.CVT.1	Mastery	Mastery
6	Independently operate other technology equipment (e.g Smartboard, scanner, digital camera, camcorder, printer), if available			Introduce 1.CS.D.1	Introduce 1.CS.D.1	Introduce	Reinforce	Reinforce
7	Identify successful troubleshooting strategies for minor hardware and software issues/problems		Introduce K.CS.T.1	Introduce 1.CS.T.1	Introduce 2.CS.T.1 2.CS.T.2	Reinforce 3.CS.T.1	Reinforce 4.CS.T.1	Reinforce
8	Use login credentials for access to network devices, accounts, servers, printers, and cloud services.		Introduce K.NI.C.1 K.IC.SLE.1	Reinforce 1.NI.C.1 1.IC.SLE.1	Reinforce 2.CS.D.1 2.NI.C1 2.NI.NCO.1	Reinforce	Reinforce	Mastery
9	Understand how to zoom in and out (on the bottom right corner of the program in order to make the document larger or smaller on the screen.				Introduce 2.CS.D.1	Introduce 3.CS.HS.1	Reinforce	Reinforce

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Concept 2: Keyboarding Finger placement, shortcuts								
SKILL		Pre-K	Kindergarten	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5
1	Use keyboarding programs and games to gain proficiency and speed in touch typing		Introduce K.CS.D.1	Introduce 1.CS.D.1	Introduce 1.CS.D.1	Reinforce	Reinforce	Reinforce
2	Locate and use letter and number keys/ number pad with correct left and right hand placement (home row).			Introduce 1.CS.D.1	Introduce 1.CS.D.1	Reinforce	Reinforce	Reinforce
3	Locate and use the correct finger/hand for the spacebar, return/enter and shift key.		Introduce K.CS.D.1	Introduce 1.CS.D.1	Introduce 1.CS.D.1	Reinforce	Reinforce	Reinforce
4	Recognize and use keyboard shortcuts and functions keys (Shift, Cap Locks, Num Lock, Delete, Page Up/Down, Backspace)			Introduce 1.CS.D.1	Introduce 1.CS.D.1	Introduce	Reinforce	Reinforce

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Concept 3: Word Processing Revising, Formatting, Layout, Editing								
SKILL		Pre-K	Kindergarten	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5
1	Use a word processing application (Word, Google Docs, etc.) to write, revise, edit, print and save a variety of documents.		Introduce K.CS.D.1	Introduce 1.CS.D.1	Introduce 2.CS.D.1 2.DA.CVT.1	Reinforce 3.CS.HS.2 3.DA.S.1 3.DA.CVT.1	Introduce 4.CS.HS.2 4.DA.S.1 4.DA.CVT.1	Reinforce 5.CS.HS.2 5.DA.S.1 5.DA.CVT.1
2	Use Basic formatting techniques (font style, size, bold, underline, italics, and color) in a digital document		Introduce K.CS.D.1	Introduce 1.CS.D.1	Introduce 1.CS.D.1	Reinforce 3.CS.HS.2 3.DA.CVT.1	Introduce 4.DA.CVT.1	Reinforce 5.DA.CVT.1
3	Use intermediate formatting techniques (Page numbers, Bullets, Line Spacing, Alignment, Annotation, Headers/Footers, Paragraph Styles)					3.DA.CVT.1	Introduce 4.DA.CVT.1	Introduce 5.DA.CVT.1
4	Embed/insert- text, hyperlinks, images, tables, and/or graphs of various sizes from outside sources in a document						Introduce 4.DA.CVT.1	Introduce 5.DA.CVT.1
5	Access editing tools in the menu bar including: spell check, cut/copy/paste, undo, redo				Introduce 1.CS.D.1	Introduce 3.CS.HS.2 3.DA.CVT.1	Introduce 4.DA.CVT.1	Reinforce 5.DA.CVT.1

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6	Use the comment function in review for peer editing of documents					3.IC.SI.1	4.AP.PD.4 4.IC.SI.1	Introduce 5.AP.PD.4 5.AP.PD.5 5.IC.SI.1
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Concept 4: Spreadsheets Formulas, Cells, Graphs and Charts

SKILL		Pre-K	Kindergarten	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5
1	Manipulate cells, rows, columns, ranges, and worksheets with various formatting techniques (fonts, shading, size)					3.DA.IM.1 3.DA.CVT.1	4.DA.CVT.1 4.DA.IM.1 4.APA.1 4.AP.V.1	Introduce 5.DA.CVT.1 5.DA.IM.1
2	Format a spreadsheet with basic formulas to accommodate data					3.DA.IM.1 3.APA.1 3.AP.V.1	4.DA.CVT.1 4.DA.IM.1 4.APA.1 4.AP.V.1	Introduce 5.DA.CVT.1 5.DA.IM.1
3	Use functions of a spreadsheet application (e.g., sort, filter, find)					3.DA.IM.1 3.APA.1	4.DA.CVT.1 4.DA.IM.1 4.APA.1 4.AP.V.1	Introduce 5.DA.CVT.1 5.DA.IM.1
4	Within a spreadsheet, create graphs and charts of the data					3.DA.IM.1 3.AP.V.1	4.DA.CVT.1 4.DA.IM.1 4.APA.1 4.AP.V.1	Introduce 5.DA.CVT.1 5.DA.IM.1

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5	Use advanced formatting features of a spreadsheet application (e.g., reposition columns and rows, add and name worksheets).					3.DA.IM.1	4.DA.CVT.1 4.DA.IM.1 4.APA.1 4.AP.V.1	Introduce 5.DA.CVT.1 5.DA.IM.1 5.APA.1 5.AP.V.1
6	Use spreadsheets to calculate, graph, organize, and present data in a variety of real-world settings and choose the most appropriate type to represent given data					3.DA.IM.1 3.APA.1 3.AP.V.1	4.DA.CVT.1 4.DA.IM.1 4.APA.1 4.AP.V.1	Introduce 5.DA.CVT.1 5.DA.IM.1 5.APA.1 5.AP.V.1

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Strand 2: Communication & Collaboration

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Strand 2: Communication & Collaboration

Demonstrate effective communication through the use of digital applications as an individual and in a group setting..

Concept 1: Presentations								
Types, visually appealing								
SKILL		Pre-K	Kindergarten	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5
1	Create presentations for a variety of audiences and purposes to meet curricular goals.					3.AP.PD.5	Introduce 4.AP.PD.4 4.AP.PD.5	Introduce 5.CS.HS.1
2	Identify and utilize appropriate Web 2.0 Presentation Tools (PowerPoint, Prezi, Podcast, Video Presentation)					Introduce 3.DA.CVT.1 3.AP.PD.5 3.CS.HS.2	Introduce 4.AP.PD.4 4.AP.PD.5 4.CS.HS.2	Reinforce 5.DA.CVT.1 5.CS.HS.2
3	Use and manipulate productivity tools (multimedia, digital tools, other resources) to produce and communicate work.					3.DA.CVT.1 3.DA.IM.1	4.AP.PD.4 4.AP.PD.5 4.DA.CVT.1 4.DA.IM.1	Introduce 5.DA.CVT.1 5.DA.Im.1
4	Utilize visually appealing presentation set-up (white space, font size, etc.)					3.AP.PD.5	Introduce 4.AP.PD.4 4.AP.PD.5 4.AP.M.2	Introduce 5.AP.M.2

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5	Use teacher developed guidelines to evaluate multimedia presentations for organization, content, design, presentation and appropriateness of citations.					3.AP.PD.1 3.AP.PD.4	Introduce 4.AP.PD.4 4.AP.PD.5	Introduce
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Concept 2: Digital Environment Learning Management System

SKILL		Pre-K	Kindergarten	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5
1	Use a calendar, task manager, or other tools to organize oneself as well as manage projects.						Introduce	Introduce
2	Use content and learning management systems to access class pages, class calendars, portfolios and grades							
3	Utilize various email response functions (reply, send, reply all, forward, CC and BCC)							
4	Independently use appropriate technology tools (e.g., graphic organizer, audio, visual) to define problems and propose hypotheses					3.APA.1	4.APA.1	5.APA.1

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5	Use a variety of technology tools (e.g., dictionary, thesaurus, grammar checker, calculator/graphing calculator) to maximize the accuracy of work.					3.DA.CVT.1	Introduce 4.DA.CVT.1	Introduce 5.DA.CVT.1
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Concept 3: Cooperative Groups Effective Collaboration

SKILL		Pre-K	Kindergarten	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5
1	Plan and implement a collaborative project with students in other classrooms and schools using telecommunications tools (e.g., e-mail, discussion forums, groupware, interactive Web sites, video-conferencing).					3.AP.M.1 3.AP.PD.1 3.AP.PD.4 3.IC.SI.1	4.AP.PD.4 4.IC.SI.1	5.AP.PD.4 5.IC.SI.1
2	Participate in learning activities or cooperative projects through digital tools (email, messaging, video conferencing, virtual field trips, workspaces, social networking, online communities etc.)					3.AP.M.1 3.AP.PD.1 3.AP.PD.4 3.IC.SI.1	4.AP.PD.4 4.IC.SI.1	Introduce 5.AP.PD.4 5.IC.SI.1
3	Use social media tools to connect, collaborate and share.						4.AP.PD.4 4.IC.SI.1	5.AP.PD.4 5.IC.SI.1 CIPA- Digital Friendships

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4	Utilize appropriate messaging tools to share information and communicate ideas with others.					3.A.P.M.1 3.A.P.D.1 3.A.P.D.4	4.A.P.D.4 4.I.C.SI.1	5.A.P.D.4 5.I.C.SI.1
5	Use a variety of district approved Web 2.0 tools (e.g., e-mail discussion groups, blogs, etc.) to collaborate and communicate with peers, experts, and other audiences using appropriate academic language.					3.A.P.M.1 3.A.P.D.1 3.A.P.D.4	4.A.P.D.4 4.A.P.D.5 4.I.C.SI.1	5.A.P.D.1 5.A.P.D.4 5.I.C.SI.1

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Strand 3: File/Document Management

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Strand 3: File/Document Management

Demonstrate effective communication through the use of digital applications as an individual and in a group setting.

Concept 1: Organization								
Filing and management systems								
SKILL		Pre-K	Kindergarten	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5
1	Create, edit, copy and rename files and folders to organize documents and materials.					Introduce	Introduce	Introduce 5.DA.CVT.1
2	Recognize and apply appropriate file naming protocols (.doc, .xls, .ppt, .jpg, etc).					3.DA.S.1	4.DA.S.1	Introduce 5.DA.S.1
3	Use various methods of file distribution (file sharing, copy to shared drives, cloud services)					Introduce 3.DA.S.1 3.DA.CVT.1	Introduce 4.DA.S.1 4.DA.CVT.1	Introduce 5.DA.S.1 5.DA.CVT.1
4	Create, organize, and share folders and documents in Google Drive and other applications					Introduce 3.AP.M.1 3.AP.PD.1 3.AP.PD.4 3.DA.CVT.1	Introduce 4.DA.S.1 4.DA.CVT.1	Introduce 5.DA.S.1 5.DA.CVT.1

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5	Delete, recover, restore and backup files and folders					3.CS.HS.2	4.CS.HS.2	Introduce 5.DA.CVT.1 5.CS.HS.2
6	Demonstrate project management abilities (organizing information, deadlines) to develop a solution or complete project					3.AP.PD.1 3.AP.PD.4	Introduce 4.AP.PD.1 4.AP.PD.4	Introduce 5.AP.PD.1 5.DA.CVT.1 5.AP.M.1 5.AP.M.2 5.AP.PD.1 5.AP.PD.4
7	Follow the district document naming convention: Assignment.Name (ex: ScienceMap.McIntyreLauren)					Introduce	Introduce	Introduce
8	Saving documents-Understand where files are being saved (desktop, server, cloud, flash drives, etc)					Introduce	Introduce	Introduce

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Strand 4: Information Literacy

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Strand 4: Information Literacy

Demonstrate the ability to use technology to enhance critical thinking and research while identifying and evaluating resources.

Concept 1: Research Tools Research organization in various environments								
SKILL		Pre-K	Kindergarten	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5
1	Use age-appropriate search engines to find information		Introduce	Introduce CIPA: Internet Traffic	Introduce 1.CS.D.1	Reinforce 3.IC.SLE.1 3.DA.CVT.1	Reinforce 4.DA.CVT.1	Reinforce 5.DA.CVT.1
2	Recognize how to use information responsibly, ethically, and legally, organize and present information			Introduce 1.NI.C.1	Introduce 2.AP.PD.2	Introduce 3.AP.PD.2 3.IC.SLE.1	Introduce 4.NI.C.1 4.IC.SLE.1 4.AP.PD.2	Reinforce 5.CS.D.2 5.NI.C.1 5.IC.SLE.1 5.AP.PD.2
3	Use features of internet browser (e.g. bookmarks/favorites, type in a web site address in the address bar, ctrl +F to find word(s) within the page)		Introduce	Introduce	Introduce 1.CS.D.1	Reinforce	Reinforce	Reinforce 5.CS.D.1
4	Use content specific technology tools (e.g. environmental probes, sensors and measuring devices, simulations) to gather and analyze data						Introduce 4.DA.CVT.1 4.DA.IM.1	Introduce 5.DA.CVT.1 5.APA.1
5	Demonstrate basic use of a search engine search keywords, Boolean Searching (and, or, not, "", etc.)					Introduce	Introduce	Reinforce 5.DA.CVT.1

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6	Use age-appropriate guidelines to evaluate websites and other resources for accuracy, perspective, credibility and relevance.					CIPA: Is Seeing Believing?	Introduce 4.NI.C.1	Introduce 5.NI.C.1
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Concept 2: Source Evaluation Media choices and options

SKILL		Pre-K	Kindergarten	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5
1	Use online databases as sources of reliable information.					3.IC.SLE.1	Introduce	Introduce
2	Compare and evaluate a variety of sources in order to choose the source of best fit		CIPA: Safety in My Online Neighborhood	CIPA: Internet Traffic			Introduce	Introduce
3	Recognize the different formats of information (data, facts, primary source information, second-hand information, etc.)						Introduce <u>Common Sense</u> My Media Choices	Introduce

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4	Ability to evaluate sources for author's expertise, the accuracy of the information presented, the currency/timeliness, and bias.						Introduce	Introduce <u>Common Sense</u> Reading News Online
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Concept 3: Navigation Web tools and environments								
SKILL		Pre-K	Kindergarten	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5
1	Use refresh, forward and back buttons to navigate a web browser.		Introduce	Introduce 1.CS.D.1	Introduce 1.CS.D.1	Reinforce	Reinforce	Reinforce
2	Use tab browsing to navigate multiple pages.			Introduce 1.CS.D.1	Introduce 1.CS.D.1	Introduce	Reinforce	Reinforce
3	Use a browser history feature to locate previously visited sites.						Introduce	Introduce

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Concept 4: Acceptable Use, Copyright, Plagiarism

Appropriate use of resources

Concept 4: Acceptable Use, Copyright, Plagiarism Appropriate use of resources								
SKILL		Pre-K	Kindergarten	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5
1	Explain and demonstrate compliance with district, site and classroom rules and policies (Acceptable Use Policy and BYOD).		Introduce K.IC.SI.1 K.IC.SLE.1	Introduce 1.IC.SI.1 1.IC.SLE.1	Introduce 2.IC.SI.1 2.IC.SLE.1	Introduce 3.AP.PD.2 3.IC.SLE.1 3.IC.SLE.1	Introduce 4.AP.PD.2 4.IC.SLE.1	Reinforce 5.AP.PD.2 5.IC.SLE.1
2	Identify and understand Fair Use guidelines for using copyrighted materials and possible consequences (e.g., images, music, video, text) in school projects and its application to all forms of work.					Introduce 3.AP.PD.2 3.IC.SLE.1 3.AP.PD.2	Introduce 4.AP.PD.2 4.IC.SLE.1 CIPA: A Creator's Rights and Responsibilities	Introduce 5.AP.PD.2 5.IC.SLE.1
3	Demonstrate age-appropriate understanding for district expectations related to ethical use, cyberbullying, privacy, plagiarism, spam, viruses, hacking, and file sharing.			Introduce 1.NI.C.1 1.NI.NCO.1 1.IC.SI.1	Introduce 2.IC.SI.1 CIPA: Putting a STOP to Online Meanness	Introduce 3.IC.SLE.1 3.AP.PD.2	Reinforce 4.NI.C.1 4.IC.SLE.1	Reinforce 5.CS.D.2 5.NI.C.1 5.IC.SLE.1
4	Paraphrase correctly, create Works Cited/References, and parenthetical references/citations according to the appropriate style (MLA, APA).					3.AP.PD.2	Introduce	Introduce 5.AP.PD.2 5.IC.SLE.1

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5	Recognize how to paraphrase correctly. Understand the concept of intellectual property (especially copyright, fair use, and plagiarism). Understand the concept of intellectual freedom. Create bibliographies and parenthetical citations according to an appropriate style manual					Introduce 3.AP.PD.2 3.IC.SLE.1 3.AP.PD.2	Introduce 4.AP.PD.2 4.IC.SLE.1	Introduce 5.AP.PD.2 5.IC.SLE.1 CIPA: A Creator's Rights and Responsibilitie s
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Strand 5: Digital Identity & Online Safety

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Strand 5: Digital Identity & Online Safety

Demonstrate social and ethical responsibility while using technology at school, home and in society.

Concept 1: Digital Identity Footprint, personal identity								
SKILL	Pre-K	Kindergarten	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	
1	Identify tools necessary to build an appropriate digital footprint (profile picture, limited shared information).				Introduce 2.CS.D.1 2.DA.S.1 CIPA: We the Digital Citizens CIPA: That's Private!	Introduce CIPA: Password Power-Up CIPA: Is Seeing Believing?	Introduce 4.NI.C.1 CIPA: Private and Personal Information CIPA: Our Online Tracks	Introduce 5.CS.D.2 5.NI.C.1
2	Understand the importance while effectively managing & protecting personal information online such as passwords.		Introduce K.NI.C.1 K.IC.SLE.1	Introduce 1.NI.C.1 1.IC.SLE.1	Introduce 2.NI.C.1 2.IC.SLE.1 CIPA: That's Private!	Reinforce 3.NI.C.1 CIPA: Password Power-Up	Reinforce 4.NI.C.1 CIPA: Private and Personal Information	Reinforce 5.CS.D.2 5.NI.C.1 5.IC.C.1 CIPA: You Won't Believe This!
3	Understand that digital content is permanent and cannot be deleted.			Introduce 1.DA.S.1	Introduce 1.DA.S.1 2.IC.SLE.1	Introduce	Introduce 4.NI.C.1 CIPA: Our Online Tracks	Reinforce 5.CS.D.2 5.NI.C.1 5.IC.C.1 5.CS.C.1

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Concept 2: Online Safety Cyberbullying								
SKILL		Pre-K	Kindergarten	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5
1	Identify cyberbullying and describe strategies to deal with such a situation.			Introduce 1.IC.SI.1	Introduce 2.IC.SI.1 CIPA: We the Digital Citizens CIPA: Putting a STOP to Online Meanness	Introduce CIPA: Our Digital Citizenship Pledge	Reinforce 4.NI.C.1	Reinforce 5.CS.D.2 5.IC.C.1 CIPA: Digital Friendships CIPA: Is it Cyberbullying?
2	Recognize and Avoid (Spam, Scams, Pharming, Phishing, Viruses, ect.).					Introduce CIPA: Is Seeing Believing	Introduce 4.NI.C.1	Introduce 5.CS.D.2 5.NI.C.1 5.IC.C.1 CIPA: You Won't Believe This!

Amphitheater Public Schools

Concept 3: Networking Etiquette Relationships								
SKILL		Pre-K	Kindergarten	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5
1	Select and use appropriate forms of digital communication (email, texting, social networking, LMS).					Introduce	Introduce 4.IC.SI.1	Introduce 5.DA.CVT.1 5.NI.C.1
2	Identify and manage appropriate online relationships (family, friends, strangers).		CIPA: Safety in My Online Neighborhood	CIPA: How Technology Makes You Feel	Introduce 2.IC.SI.1 CIPA: We the Digital Citizens CIPA: That's Private!	Introduce CIPA: Our Digital Citizenship Pledge	Introduce 4.IC.SI.1	Reinforce 5.IC.C.1 5.CS.D.2 5.NI.C.1 5.IC.SI.1 CIPA: Digital Friendships CIPA: Is it Cyberbullying?
3	Use technology independently and with peers responsibly and make safe choices.		Introduce K.IC.SI.1 CIPA: Media Balance Is Important CIPA: Pause for People	Introduce 1.IC.SI.1 CIPA: Pause & Think Online CIPA: How Technology Makes You Feel	Introduce 2.IC.SI.1 CIPA: We the Digital Citizens	Introduce 3.DA.CVT.1 3.AP.PD.4 CIPA: Our Digital Citizenship Pledge	Reinforce 4.IC.SI.1 4.DA.CVT.1 4.AP.PD.4 <u>Common Sense</u> My Media Choice Our Online Tracks	Reinforce 5.IC.SI.1 5.IC.C.2 5.AP.PD.4 5.DA.CVT.1 5.NI.C.1 <u>Common Sense</u> Digital Friendships

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			CIPA: Safety in My Online Neighborhood				Keeping Games Fun and Friendly	
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Concept 4: User Responsibility Common Sense

SKILL		Pre-K	Kindergarten	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5
1	Understanding the importance of the sensitive components of computer devices. Turning on computer carefully, using the keyboard gently (i.e. not banging on the keyboard or devices).		Introduce K.CS.D.1	Reinforce 1.CS.D.1	Reinforce 2.CS.D.1	Reinforce 3.CS.T.1	Reinforce 4.CS.T.1	Mastery 5.CS.T.1
2	Digital Health (Sit up straight, feet flat, wrists flat, fingers curved, monitor at eye level, add intervals of finger exercises & stretching during prolonged computer activity, appropriate screen time).		Introduce CIPA: Media Balance Is Important	Introduce CIPA: Pause & Think Online	Introduce	Introduce	Reinforce	Reinforce <u>Common Sense</u> Finding My Media Balance
3	Smartboard- fingers or knuckles are the best options when navigating board. Refraining from putting magnets, etc. on boards to preserve the technology.		Introduce K.CS.D.1	Introduce 1.CS.D.1	Reinforce 2.CS.D.1	Reinforce	Reinforce	Reinforce

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4	Proper transportation and storage of devices.		Introduce	Reinforce	Reinforce	Reinforce	Reinforce	Reinforce
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Computer Science Standards for Daily Integration

Computer Science Standards								
SKILL	Pre-K	Kindergarten	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	
1	OTHER		K.CS.HS.1 K.NI.NCO.1 K.DA.CVT.1 K.DA.S.1 K.DA.IM.1 K.APA.1 K.AP.V.1 K.APC.1 K.APM.1 K.APD.1 K.APD.2 K.APD.3 K.APD.4 K.IC.C.1	1.CS.HS.1 1.CS.T.2 1.DA.CVT.1 1.DA.IM.1 1.APA.1 1.AP.V.1 1.APC.1 1.APM.1 1.APD.1 1.APD.2 1.APD.3 1.APD.4	2.DA.IM.1 2.APA.1 2.AP.V.1 2.APC.1 2.APM.1 2.APD.1 2.APD.3 2.APD.4 2.IC.C.1 PLTW-Rosie's Walk, Scratch Jr.	3.NI.NCO.1 3.APC.1 3.APD.3 3.IC.C.1 3.IC.C.2 3.CS.HS.2	4.CS.D.1 4.CS.HS.1 4.CS.HS.2 4.NI.NCO.1 4.APC.1 4.APM.1 4.APM.2 4.APD.1 4.APD.3 4.IC.C.1 4.IC.C.2	

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6th Grade to 12th Grade

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Strand 1: Technology Operations & Concepts

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Strand 1: Technology Operations & Concepts

Demonstrate proficiency in digital concepts regarding hardware and software through the use of various devices and applications.

Concept 1: Components Hardware and user settings								
SKILL		Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12
1	Identify and correctly use the basic components of the computer: monitor, keyboard, mouse, headphones, ports, and printers.	Mastery 6.CS.D.1	Mastery 7.CS.D.1	Mastery 8.CS.D.1	Mastery	Mastery	Mastery	Mastery
2	Effectively utilize individualized accounts while logging on/off and shutting down devices	Mastery 6.CS.D.1	Mastery 7.CS.D.1	Mastery 8.CS.D.1	Mastery	Mastery	Mastery	Mastery
3	Use desktop icons, windows and menus to open and close applications and documents; understand difference between closing and quitting applications	Mastery 6.CS.D.1	Mastery 7.CS.D.1	Mastery 8.CS.D.1	Mastery	Mastery	Mastery	Mastery
4	Effectively use a mouse or trackpad to point and click	Mastery 6.CS.D.1	Mastery 7.CS.D.1	Mastery 8.CS.D.1	Mastery	Mastery	Mastery	Mastery

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5	Access and make a choice from a drop-down menu	Mastery 6.CS.HS.1	Mastery 7.CS.HS.1	Mastery 8.CS.HS.1	Mastery	Mastery	Mastery	Mastery
6	Independently operate other technology equipment (e.g Smartboard, scanner, digital camera, camcorder, printer), if available	Reinforce 6.CS.D.1	Reinforce 7.CS.D.1	Reinforce 8.CS.D.1	Reinforce	Reinforce	Mastery	Mastery
7	Identify successful troubleshooting strategies for minor hardware and software issues/problems	Reinforce 6.CS.T.1	Reinforce 7.CS.T.1	Reinforce 8.CS.T.1	Reinforce HS.CS.T.1	Mastery HS.CS.T.1	Mastery HS.CS.T.1	Mastery HS.CS.T.1
8	Use login credentials for access to network devices, accounts, servers, printers, and cloud services.	Mastery 6.CS.HS.1	Mastery 7.CS.HS.1	Mastery 8.CS.HS.1	Mastery	Mastery	Mastery	Mastery
9	Understand how to zoom in and out (on the bottom right corner of the program in order to make the document larger or smaller on the screen.	Reinforce 6.CS.D.1	Reinforce 7.CS.D.1	Mastery 8.CS.D.1	Mastery	Mastery	Mastery	Mastery

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Concept 2: Keyboarding Finger placement, shortcuts								
SKILL		Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12
1	Use keyboarding programs and games to gain proficiency and speed in touch typing	Reinforce 6.CS.D.1	Reinforce 7.CS.D.1	Reinforce 8.CS.D.1	Mastery	Mastery	Mastery	Mastery
2	Locate and use letter and number keys/ number pad with correct left and right hand placement (home row).	Reinforce 6.CS.D.1	Reinforce 7.CS.D.1	Mastery 8.CS.D.1	Mastery	Mastery	Mastery	Mastery
3	Locate and use the correct finger/hand for the spacebar, return/enter and shift key.	Reinforce 6.CS.D.1	Reinforce 7.CS.D.1	Reinforce 8.CS.D.1	Reinforce	Mastery	Mastery	Mastery
4	Recognize and use keyboard shortcuts and functions keys (Shift, Cap Locks, Num Lock, Delete, Page Up/Down, Backspace, tab)	Reinforce 6.CS.D.1	Reinforce 7.CS.D.1	Reinforce 8.CS.D.1	Reinforce	Reinforce	Mastery	Mastery

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Concept 3: Word Processing Revising, Formatting, Layout, Editing								
SKILL		Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12
1	Use a word processing application (Word, Google Docs, etc.) to write, revise, edit, print and save a variety of documents.	Reinforce 6.CS.HS.1	Reinforce 7.CS.HS.1	Mastery 8.CS.HS.1	Mastery	Mastery	Mastery	Mastery
2	Use Basic formatting techniques (font style, size, bold, underline, italics, and color) in a digital document	Mastery 6.CS.HS.1	Mastery 7.CS.HS.1	Mastery 8.CS.HS.1	Mastery	Mastery	Mastery	Mastery
3	Use intermediate formatting techniques (Page numbers, Bullets, Line Spacing, Alignment, Annotation, Headers/Footers, Paragraph Styles)	Introduce 6.CS.HS.1	Reinforce 7.CS.HS.1	Mastery 8.CS.HS.1	Mastery	Mastery	Mastery	Mastery
4	Embed/insert- text, hyperlinks, images, tables, and/or graphs of various sizes from outside sources in a document	Introduce 6.CS.HS.1	Reinforce 7.CS.HS.1	Reinforce 8.CS.HS.1	Reinforce	Reinforce	Mastery	Mastery
5	Access editing tools in the menu bar including: spell check, cut/copy/paste, undo, redo	Reinforce 6.CS.HS.1	Reinforce 7.CS.HS.1	Mastery 8.CS.HS.1	Mastery	Mastery	Mastery	Mastery

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6	Use the comment function in review for peer editing of documents	Introduce 6.CS.HS.1	Reinforce 7.CS.HS.1	Reinforce 8.CS.HS.1	Reinforce	Reinforce	Mastery	Mastery
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Amphitheater Public Schools

Concept 4: Spreadsheets Formulas, Cells, Graphs and Charts								
SKILL		Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12
1	Manipulate cells, rows, columns, ranges, and worksheets with various formatting techniques (fonts, shading, size)	Introduce 6.AP.PD.3 6.DA.CVT.1	Introduce 7.AP.PD.3 7.DA.CVT.1	Reinforce 8.AP.PD.3 8.DA.CVT.1	Reinforce	Reinforce	Mastery	Mastery
2	Format a spreadsheet with basic formulas to accommodate data	Introduce 6.AP.PD.3 6.DA.CVT.1	Introduce 7.AP.PD.3 7.DA.CVT.1	Reinforce 8.AP.PD.3 8.DA.CVT.1	Reinforce	Reinforce	Mastery	Mastery
3	Use functions of a spreadsheet application (e.g., sort, filter, find)	Introduce 6.AP.PD.3 6.DA.CVT.1	Introduce 7.AP.PD.3 7.DA.CVT.1	Reinforce 8.AP.PD.3 8.DA.CVT.1	Reinforce	Reinforce	Mastery	Mastery
4	Within a spreadsheet, create graphs and charts of the data	Introduce 6.AP.PD.3 6.DA.CVT.1	Introduce 7.AP.PD.3 7.DA.CVT.1	Reinforce 8.AP.PD.3 8.DA.CVT.1	Reinforce	Reinforce	Mastery	Mastery
5	Use advanced formatting features of a spreadsheet application (e.g., reposition columns and rows, add and name worksheets).	Introduce 6.AP.PD.3 6.DA.CVT.1	Introduce 7.AP.PD.3 7.DA.CVT.1	Reinforce 8.AP.PD.3 8.DA.CVT.1	Reinforce	Reinforce	Mastery	Mastery

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6	Use spreadsheets to calculate, graph, organize, and present data in a variety of real-world settings and choose the most appropriate type to represent given data	Introduce 6.AP.PD.3 6.DA.CVT.1	Introduce 7.AP.PD.3 7.DA.CVT.1	Reinforce 8.AP.PD.3 8.DA.CVT.1	Reinforce HS.DA.CVT.1	Reinforce HS.DA.CVT.1	Mastery HS.DA.CVT.1	Mastery HS.DA.CVT.1
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Amphitheater Public Schools

Strand 2: Communication & Collaboration

Amphitheater Public Schools

Strand 2: Communication & Collaboration

Demonstrate effective communication through the use of digital applications as an individual and in a group setting..

Concept 1: Presentations								
Types, visually appealing								
SKILL		Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12
1	Create presentations for a variety of audiences and purposes to meet curricular goals.	Reinforce 6.CS.HS.1	Reinforce 7.CS.HS.1	Reinforce 8.CS.HS.1	Reinforce	Reinforce	Mastery	Mastery
2	Identify and utilize appropriate Web 2.0 Presentation Tools (PowerPoint, Prezi, Podcast, Video Presentation)	Reinforce 6.CS.HS.1	Reinforce 7.CS.HS.1	Reinforce 8.CS.HS.1	Reinforce HS	Reinforce	Reinforce	Mastery
3	Use and manipulate productivity tools (multimedia, digital tools, other resources) to produce and communicate work.	Introduce 6.CS.HS.1	Reinforce 7.CS.HS.1	Reinforce 8.CS.HS.1	Reinforce	Reinforce	Mastery	Mastery
4	Utilize visually appealing presentation set-up (white space, font size, etc.)	Introduce 6.CS.D.1	Reinforce 7.CS.HS.1	Reinforce 8.CS.HS.1	Reinforce	Mastery	Mastery	Mastery

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5	Use teacher developed guidelines to evaluate multimedia presentations for organization, content, design, presentation and appropriateness of citations.	Introduce 6.CS.D.1	Reinforce 7.CS.HS.1	Reinforce 8.CS.HS.1	Reinforce	Mastery	Mastery	Mastery
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Concept 2: Digital Environment Learning Management System								
SKILL		Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12
1	Use a calendar, task manager, or other tools to organize one's self as well as manage projects.	Introduce 6.AP.PD.4	Reinforce 7.AP.PD.4	Reinforce 8.AP.PD.4	Reinforce	Reinforce	Mastery	Mastery
2	Use content and learning management systems to access class pages, class calendars, portfolios and grades	Introduce 6.AP.PD.4	Introduce 7.AP.PD.4	Reinforce 8.AP.PD.4	Reinforce	Mastery	Mastery	Mastery
3	Utilize various email response functions (reply, send, reply all, forward, CC and BCC)	Introduce	Introduce	Introduce	Reinforce	Reinforce	Reinforce	Mastery
4	Independently use appropriate technology tools (e.g., graphic organizer, audio, visual) to define problems and propose hypotheses			Introduce 8.APA.1	Reinforce	Reinforce	Reinforce	Mastery
5	Use a variety of technology tools (e.g., dictionary, thesaurus, grammar checker, calculator/graphing calculator) to maximize the accuracy of work.	Reinforce 6.CS.HS.1	Reinforce 7.CS.HS.1	Reinforce 8.CS.HS.1	Reinforce	Reinforce	Mastery	Mastery

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Concept 3: Cooperative Groups Effective Collaboration								
SKILL		Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12
1	Plan and implement a collaborative project with students in other classrooms and schools using telecommunications tools (e.g., e-mail, discussion forums, groupware, interactive Web sites, video-conferencing).	Introduce 6.IC.SI.1 6.IC.SLE.1	Introduce	Introduce	Reinforce HS.AP.PD.2	Reinforce HS.AP.PD.2	Mastery HS.AP.PD.2	Mastery HS.AP.PD.2
2	Participate in learning activities or cooperative projects through digital tools (email, messaging, video conferencing, virtual field trips, workspaces, social networking, online communities etc.)	Introduce 6.IC.SI.1 6.IC.SLE.1	Reinforce 7.IC.SI.1 7.IC.SLE.1	Reinforce 8.IC.SI.1 8.IC.SLE.1	Reinforce HS.AP.PD.2	Reinforce HS.AP.PD.2	Mastery HS.AP.PD.2 CIPA: Connecting with Digital Audiences	Mastery HS.AP.PD.2
3	Use social media tools to connect, collaborate and share.	CIPA: Who Are You Online?		CIPA: Being Aware of What You Share CIPA: Social Media and Digital Footprints: Our Responsibilities	Introduce HS.AP.PD.2 HS.IC.SI.1	Reinforce HS.AP.PD.2 HS.IC.SI.1 CIPA: Social Media and How You Feel	Reinforce HS.AP.PD.2 HS.IC.SI.1	Mastery HS.AP.PD.2 HS.IC.SI.1 CIPA: We Are Civil Communicato rs

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4	Utilize appropriate messaging tools to share information and communicate ideas with others.	Introduce 6.IC.SI.1 6.IC.SLE.1	Introduce 7.IC.SI.1 7.IC.SLE.1	Introduce 8.IC.SI.1 8.IC.SLE.1 CIPA: Responding to Online Hate Speech	Reinforce HS.AP.PD.2 HS.IC.SI.1 CIPA: What You Send In "That Moment When..."	Reinforce HS.AP.PD.2 HS.IC.SI.1	Mastery HS.AP.PD.2 HS.IC.SI.1 CIPA: Connecting with Digital Audiences	Mastery HS.AP.PD.2 HS.IC.SI.1 CIPA: We Are Civil Communicato rs
5	Use a variety of district approved Web 2.0 tools (e.g., e-mail discussion groups, blogs, etc.) to collaborate and communicate with peers, experts, and other audiences using appropriate academic language.	Introduce 6.IC.SI.1 6.IC.SLE.1	Introduce 7.IC.SI.1 7.IC.SLE.1	Introduce 8.IC.SI.1 8.IC.SLE.1	Reinforce HS.AP.PD.2	Reinforce HS.AP.PD.2	Mastery HS.AP.PD.2	Mastery HS.AP.PD.2

Amphitheater Public Schools

Strand 3: File/Document Management

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Strand 3: File/Document Management

Demonstrate effective communication through the use of digital applications as an individual and in a group setting.

Concept 1: Organization								
Filing and management systems								
SKILL		Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12
1	Create, edit, copy and rename files and folders to organize documents and materials.	Reinforce 6.CS.D.1 6.CS.HS.1	Reinforce 7.CS.D.1 7.CS.HS.1	Reinforce 8.CS.D.1 8.CS.HS.1	Reinforce	Reinforce	Mastery	Mastery
2	Recognize and apply appropriate file naming protocols (.doc, .xls, .ppt, .jpg, etc).	Introduce 6.CS.D.1 6.CS.HS.1	Introduce 7.CS.D.1 7.CS.HS.1	Introduce 8.CS.D.1 8.CS.HS.1	Reinforce	Reinforce	Mastery	Mastery
3	Use various methods of file distribution (file sharing, copy to shared drives, cloud services)	Reinforce 6.CS.D.1 6.CS.HS.1	Reinforce 7.CS.D.1 7.CS.HS.1	Reinforce 8.CS.D.1 8.CS.HS.1	Reinforce	Reinforce	Mastery	Mastery
4	Create, organize, and share folders and documents in Google Drive and other applications	Reinforce 6.CS.D.1 6.CS.HS.1	Reinforce 7.CS.D.1 7.CS.HS.1	Reinforce 8.CS.D.1 8.CS.HS.1	Reinforce	Reinforce	Mastery	Mastery

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5	Delete, recover, restore and backup files and folders	Introduce 6.CS.D.1 6.CS.HS.1	Introduce 7.CS.D.1 7.CS.HS.1	Reinforce 8.CS.D.1 8.CS.HS.1	Reinforce	Reinforce	Mastery	Mastery
6	Demonstrate project management abilities (organizing information, deadlines) to develop a solution or complete project	Introduce 6.CS.D.1 6.CS.HS.1	Introduce 7.CS.D.1 7.CS.HS.1	Reinforce 8.CS.D.1 8.CS.HS.1	Reinforce HS.AP.PD.2	Reinforce HS.AP.PD.2	Mastery HS.AP.PD.2	Mastery HS.AP.PD.2
7	Follow the district document naming convention: Assignment.Name (ex: ScienceMap.McIntyreLauren)	Introduce 6.CS.D.1 6.CS.HS.1	Reinforce 7.CS.D.1 7.CS.HS.1	Reinforce 8.CS.D.1 8.CS.HS.1	Reinforce	Reinforce	Reinforce	Mastery
8	Saving documents-Understand where files are being saved (desktop, server, cloud, flash drives, etc)	Introduce 6.CS.D.1 6.CS.HS.1	Reinforce 7.CS.D.1 7.CS.HS.1	Reinforce 8.CS.D.1 8.CS.HS.1	Reinforce HS.DA.S.2	Mastery HS.DA.S.2	Mastery HS.DA.S.2	Mastery HS.DA.S.2

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Strand 4: Information Literacy

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Strand 4: Information Literacy

Demonstrate the ability to use technology to enhance critical thinking and research while identifying and evaluating resources.

Concept 1: Research Tools Research organization in various environments								
SKILL		Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12
1	Use age-appropriate search engines to find information	Reinforce 6.IC.SI.1	Reinforce 7.IC.SI.1	Reinforce 8.IC.SI.1	Reinforce	Mastery	Mastery	Mastery
2	Recognize how to use information responsibly, ethically, and legally, organize and present information	Reinforce 6.IC.SLE.1	Reinforce 7.IC.SLE.1	Reinforce 8.IC.SLE.1	Reinforce	Reinforce	Reinforce	Mastery
3	Use features of internet browser (e.g. bookmarks/favorites, type in a web site address in the address bar, ctrl +F to find word(s) within the page)	Reinforce 6.NI.C.1	Reinforce 7.NI.C.1	Reinforce 8.IC.SLE.1	Reinforce	Mastery	Mastery	Mastery
4	Use content specific technology tools (e.g. environmental probes, sensors and measuring devices, simulations) to gather and analyze data	Introduce 6.CS.HS.1	Introduce 7.CS.HS.1	Reinforce 8.CS.HS.1	Reinforce	Reinforce	Reinforce	Mastery

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5	Demonstrate basic use of a search engine, search keywords, Boolean Searching (and, or, not, "", etc.)	Reinforce	Reinforce	Reinforce	Reinforce	Reinforce	Mastery	Mastery
6	Use age-appropriate guidelines to evaluate websites and other resources for accuracy, perspective, credibility and relevance.	Introduce	Reinforce	Reinforce	Reinforce	Reinforce	Mastery	Mastery 6.NI.C.1

Concept 2: Source Evaluation Media choices and research options

SKILL		Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12
1	Use online databases as sources of reliable information.	Introduce 6.IC.SI.1	Reinforce 7.IC.SI.1	Reinforce 8.IC.SI.1	Reinforce CIPA: Hoaxes and Fakes	Reinforce	Mastery	Mastery
2	Compare and evaluate a variety of sources in order to choose the source of best fit	Introduce	Reinforce 7.IC.SI.1 CIPA: Big, Big Data	Reinforce 8.IC.SI.1	Reinforce CIPA: The Big Data Dilemma CIPA: Hoaxes and Fakes	Reinforce	Mastery	Mastery

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3	Recognize the different formats of information (data, facts, primary source information, second-hand information, etc.)	Introduce	Reinforce 7.IC.SI.1	Reinforce	Reinforce	Reinforce CIPA: Challenging Confirmation Bias	Mastery	Mastery
4	Ability to evaluate sources for author's expertise, the accuracy of the information presented, the currency/timeliness, and bias.	Introduce 6.IC.SI.1	Reinforce 7.IC.SI.1	Reinforce 8.IC.SI.1	Reinforce	Reinforce CIPA: Challenging Confirmation Bias	Reinforce	Mastery

Concept 3: Navigation Web tools and environments								
SKILL		Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12
1	Use refresh, forward and back buttons to navigate a web browser.	Reinforce 6.CS.HS.1	Mastery 7.CS.HS.1	Mastery 8.CS.HS.1	Mastery	Mastery	Mastery	Mastery
2	Use tab browsing to navigate multiple pages.	Reinforce 6.CS.HS.1	Mastery 7.CS.HS.1	Mastery 8.CS.HS.1	Mastery	Mastery	Mastery	Mastery

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3	Use a browser history feature to locate previously visited sites.	Reinforce 6.CS.HS.1	Reinforce 7.CS.HS.1	Reinforce 8.CS.HS.1	Reinforce	Mastery	Mastery	Mastery
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Concept 4: Acceptable Use, Copyright, Plagiarism

Appropriate use of resources

SKILL		Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12
1	Explain and demonstrate compliance with district, site and classroom rules and policies (Acceptable Use Policy and BYOD).	Reinforce	Reinforce	Reinforce	Reinforce	Reinforce	Mastery	Mastery
2	Identify and understand Fair Use guidelines for using copyrighted materials and possible consequences (e.g., images, music, video, text) in school projects and its application to all forms of work.	Introduce	Reinforce CIPA: The Four Factors of Fair Use	Reinforce	Reinforce HS.IC.SLE.1	Reinforce HS.IC.SLE.1	Reinforce HS.IC.SLE.1	Mastery HS.IC.SLE.1
3	Demonstrate age-appropriate understanding for district expectations related to ethical use, cyberbullying, privacy, plagiarism, spam, viruses, hacking, and file sharing.	Reinforce	Reinforce	Reinforce	Reinforce	Reinforce	Mastery	Mastery

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4	Paraphrase correctly, create Works Cited/References, and parenthetical references/citations according to the appropriate style (MLA, APA).	Introduce	Introduce	Reinforce	Reinforce	Reinforce	Reinforce	Mastery
5	Recognize how to paraphrase correctly. Understand the concept of intellectual property (especially copyright, fair use, and plagiarism). Understand the concept of intellectual freedom. Create bibliographies and parenthetical citations according to an appropriate style manual	Introduce	Reinforce CIPA: The Four Factors of Fair Use	Reinforce	Reinforce HS.IC.SLE.1	Reinforce HS.IC.SLE.1	Reinforce HS.IC.SLE.1	Mastery HS.IC.SLE.1 CIPA: Debating the Privacy Line

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Strand 5: Digital Identity & Online Safety

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Strand 5: Digital Identity & Online Safety

Demonstrate social and ethical responsibility while using technology at school, home and in society.

Concept 1: Digital Identity								
Footprint, personal identity								
SKILL		Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12
1	Identify tools necessary to build an appropriate digital footprint (profile picture, limited shared information).	Reinforce 6.IC.SLE.1 6.IC.SLE.2 CIPA: Who Are You Online?	Reinforce 7.IC.SLE.1 7.IC.SLE.2	Reinforce 8.IC.SLE.1 8.IC.SLE.2 CIPA: Being Aware of What You Share CIPA: Social Media and Digital Footprints: Our Responsibilities	Reinforce HS.IC.SLE.1 HS.IC.SLE.2	Reinforce HS.IC.SLE.1 HS.IC.SLE.2	Mastery HS.IC.SLE.1 HS.IC.SLE.2	Mastery HS.IC.SLE.1 HS.IC.SLE.2 CIPA: The Change You Want to See
2	Understand the importance while effectively managing & protecting personal information online such as passwords.	Reinforce CIPA: Don't Feed the Phish	Reinforce	Reinforce CIPA: Being Aware of What You Share	Reinforce	Reinforce	Mastery	Mastery CIPA: Debating the Privacy Line

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3	Understand that digital content is permanent and cannot be deleted.	Reinforce 6.IC.SLE.1 6.IC.SLE.2	Reinforce 7.IC.SLE.1 7.IC.SLE.2	Reinforce 8.IC.SLE.1 8.IC.SLE.2 CIPA: Being Aware of What You Share	Reinforce HS.IC.SLE.2 HS.IC.SLE.1 CIPA: What You Send In "That Moment When..."	Reinforce HS.IC.SLE.2 HS.IC.SLE.1	Mastery HS.IC.SLE.2 HS.IC.SLE.1	Mastery HS.IC.SLE.2 HS.IC.SLE.1 CIPA: Debating the Privacy Line CIPA: We Are Civil Communicato rs
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Concept 2: Online Safety Cyberbullying

SKILL		Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12
1	Identify cyberbullying and describe strategies to deal with such a situation.	Reinforce CIPA: Digital Drama Unplugged	Reinforce	Reinforce	Reinforce	Mastery	Mastery CIPA: Online Disinhibition and Cyberbullying	Mastery
2	Recognize and Avoid (Spam, Scams, Pharming, Phishing, Viruses, ect.).	Reinforce CIPA: Don't Feed the Phish	Reinforce CIPA: Big, Big Data	Reinforce	Reinforce CIPA: The Big Data Dilemma	Reinforce	Reinforce	Mastery

Concept 3: Networking Etiquette Relationships

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SKILL		Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12
1	Select and use appropriate forms of digital communication (email, texting, social networking, LMS).	Reinforce	Reinforce	Reinforce CIPA: Responding to Online Hate Speech	Reinforce	Reinforce	Mastery	Mastery
2	Identify and manage appropriate online relationships (family, friends, strangers).	Reinforce CIPA: Who Are You Online? CIPA: Digital Drama Unplugged	Reinforce CIPA; My Social Media Life	Reinforce	Reinforce CIPA: What You Send In "That Moment When..."	Reinforce	Mastery CIPA: How Young Is Too Young for Social Media? CIPA: Online Disinhibition and Cyberbullying	Mastery
3	Use technology independently and with peers responsibly and make safe choices.	Reinforce CIPA: Digital Drama Unplugged	Reinforce CIPA; Big, Big Data CIPA: My Social Media Life	Reinforce	Reinforce CIPA: The Big Data Dilemma	Reinforce	Mastery CIPA: How Young Is Too Young for Social Media?	Mastery

Concept 4: User Responsibility

Common Sense

SKILL	Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12
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1	Understanding the importance of the sensitive components of computer devices. Turning on the computer carefully, using the keyboard gently (i.e. not banging on the keyboard or devices).	Mastery	Mastery	Mastery	Mastery	Mastery	Mastery	Mastery
2	Digital Health (Sit up straight, feet flat, wrists flat, fingers curved, monitor at eye level, add intervals of finger exercises & stretching during prolonged computer activity, appropriate screen time).	Reinforce <u>Common Sense</u> Finding balance in a Digital World	Reinforce <u>Common Sense</u> My Media Use: a Personal Challenge	Reinforce <u>Common Sense</u> Digital media and Your Brain	Mastery	Mastery	Mastery	Mastery
3	Smartboard- fingers or knuckles are the best options when navigating a board. Refraining from putting magnets, etc. on boards to preserve the technology.	Mastery	Mastery	Mastery	Mastery	Mastery	Mastery	Mastery
4	Proper transportation and storage of devices.	Mastery	Mastery	Mastery	Mastery	Mastery	Mastery	Mastery

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Computer Science Standards for Daily Integration

Computer Science Standards								
SKILL		6	7	8	9	10	11	12
1	OTHER							