

FAIRFIELD TOWNSHIP SCHOOL DISTRICT



Computer Science and Design Thinking NJSLS 2020

CURRICULUM GUIDE GRADE K

BOARD OF EDUCATION APPROVED AUGUST, 2022

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PURPOSE AND GOALS

The Technology Curriculum was developed and created in order for today's students to compete in tomorrow's world. Students need to create, communicate, collaborate, apply critical thinking, problem solving and decision making skills as they become good digital citizens. To accomplish this, we developed an integrated curriculum across all subject areas while providing a flexible learning environment. We must endeavor to improve and add to the resources as technology in education advances.

Technology in the 21st Century

Technology is uniquely positioned to transform learning, to foster critical thinking, creativity, and innovation, and to prepare students to thrive in the global economy. As engaged digital learners, students are able to acquire and apply content knowledge and skills through active exploration, interaction, and collaboration with others across the globe, challenging them to design the future as envisioned in the statements that follow:

Mission: Technology enables students to solve real world problems, enhance life, and extend human capability as they meet the challenges of a dynamic global society.

Goals: The systematic integration of technology across the curriculum and in the teaching and learning process fosters a population that leverages 21st century resources to:

Goal 1: Apply information-literacy skills to access, manage, and communicate information using a range of emerging technological tools.

Goal 2: Think critically and creatively to solve problems, synthesize and create new knowledge, and make informed decisions that affect individuals, the world community, and the environment.

Goal 3: Gain enhanced understanding of global interdependencies as well as multiple cultural perspectives, differing points of view, and diverse values.

Goal 4: Employ a systemic approach to understand the design process, the designed world, and the interrelationship and impact of technologies.

Goal 5: Model digital citizenship.

THE SPECIAL EDUCATION PROGRAM USES THE FOLLOWING CURRICULUM WITH APPROPRIATE MODIFICATION BEING MADE TO ADDRESS THE NEEDS OF THE INDIVIDUAL STUDENTS.

DIVERSITY AND INCLUSION

In alignment with the New Jersey Student Learning Standards (NJSLS), the technology curriculum materials will:

- Cultivate respect towards minority groups to foster appreciation of their differences as well as recognize their contributions to the advancement of science and technology.
- Evaluate experiences of people of diverse backgrounds and their unique journeys, including challenges and successes, and their significant historic contributions to the economic, political, and social development of New Jersey and the United States.
- Analyze grade-level texts highlighting the technological and scientific contributions of persons of different genders, ethnicities, and abilities.
- Apply the design thinking process to develop empathy, challenging biases, to better understand different perspectives and experiences to creatively problem-solve and innovate solutions for diverse groups of people with specific needs.
- Engage in authentic learning experiences that enable students to acquire and incorporate varied perspectives, and communicate with diverse audiences about the use and effects of computing while applying content knowledge, integrating concepts across disciplines, and developing computational thinking skills.
- Participate in an inclusive and diverse computing culture that appreciates and incorporates perspectives from people of different genders, ethnicities, and abilities.
- Understand how economic, political, social, and cultural aspects of society drive development of new technological products, processes, and systems.
- Reflect on personal experiences and the experiences of others, building empathy and promoting a climate of respect and acceptance of people with different backgrounds and abilities.

Key:
Climate
Equity and Inclusion
SEL
Holocaust
Amistad

Career Readiness, Life Literacies, and Key Skills

NJ Student Learning Standard 9: Career Readiness, Life Literacies, and Key Skills (Grades K-2)

Content Area		Technology		
Standard		8.1 Educational Technology: All students will use digital tools to access, manage, evaluate, and synthesize information in order to solve problems individually and collaboratively and to create and communicate knowledge.		
Strand		A. Technology Operations and Concepts: Students demonstrate a sound understanding of technology concepts, systems, and operations.		
Enduring Understandings: Digital tools/technologies may have multiple purposes used in creating, communicating, problem solving, and entertaining, among others. Manipulating, navigating, and effectively using digital tools/technology is a developed proficiency that requires practice. Technology is used both personally and professionally to research, analyze, communicate, create, and store information.				Essential Questions: What are digital tools? Why are digital tools (computers/apps/programs/etc.) used by people? What can one do with digital tools?
Grade Level	Content Statement Students will:	Indicator	Indicator	Instructional Guidance
K	Understand and use technology systems.	8.1.2.A.1	Identify the basic features of a digital device and explain its purpose.	Measurements of Understanding <i>To show evidence of meeting these CPIs, students may complete the following assessment:</i> <ul style="list-style-type: none"> ● By the end of the year, students will identify the basic features of a digital device and explain its purpose. ● By the end of the year, students will create a document with text using a word processing program. ● By the end of the year, students will compare the common uses of at least two different digital applications
	Select and use applications effectively and productively.	8.1.2.A.2	Create a document using a word processing application.	
		8.1.2.A.3	Compare the common uses of at least two different digital applications and identify the advantages and disadvantages of using each.	

		8.1.2.A.4	Demonstrate developmentally appropriate navigation skills in virtual environments (i.e., games, museums).	and identify the advantages and disadvantages of using each. <ul style="list-style-type: none"> ● By the end of the year, students will demonstrate developmentally appropriate navigation skills in virtual environments (i.e., games, museums). ● By the end of the year, students will enter information into a spreadsheet and sort the information with the assistance of the teacher.
		8.1.2.A.5	Enter information into a spreadsheet and sort the information.	
		8.1.2.A.6	Identify the structure and components of a database.	
		8.1.2.A.7	Enter information into a database or spreadsheet and filter the information.	
Domain Specific Vocabulary: Internet, Browser, App, Document, Camera, Tap, database, spreadsheet				Resources: Apps within G Suite and other age appropriate iPad apps Design Challenge Book List
Connection to ISTE Standards for Students: ISTE Standard 1 - Empowered Learner - Students leverage technology to take an active role in choosing, achieving and demonstrating competency in their learning goals, informed by the learning sciences. ISTE Standard 2 - Digital Citizen - Students recognize the rights, responsibilities and opportunities of living, learning and working in an interconnected digital world, and they act and model in ways that are safe, legal and ethical. ISTE Standard 3 - Knowledge Constructor - Students critically curate a variety of resources using digital tools to construct knowledge, produce creative artifacts and make meaningful learning experiences for themselves and others. ISTE Standard 4 - Innovative Designer - Students use a variety of technologies within a design process to identify and solve problems by creating new, useful or imaginative solutions. ISTE Standard 6 - Creative Communicator - Students communicate clearly and express themselves creatively for a variety of purposes using the platforms, tools, styles, formats and digital media appropriate to their goals.				

Special Education/504/Students at Risk of Failure Modifications:

- Specific collaborative groupings of students per interpersonal skills and teacher observations.
- Providing vocabulary and concept resources, diagrams and videos, among other resources to assist with understanding concepts and vocabulary.
- Teacher Assistance with hands-on activities/projects and research.
- Teacher modeling and/or providing (more or less) guidance during the inquiry process with specific projects.
- Provide choice of activity.
- Sentence starters for any written and verbal communication.
- Scaffolding the amount of work (decrease or increase) based on skill sets and time allocations.
- Multiple check-in opportunities for students, particularly during hands-on activities, projects, and other independent work.
- Adapt the amount of personal assistance for specific learners.

G&T/Enrichment Modifications:

- Provide choice of activity, presentation, and groups among appropriate projects.
- Extend activities as appropriate.
- Extend readings by offering varying and different text, including nonfiction, that is on a student's Lexile Level.
- Offer additional opportunities for synthesis - Asking questions that encourage students to create new information from existing information.
- Extend Metacognition - Asking questions which prompt students to think about their own thinking process, (successes and challenges).
- Increase connections - Asking students questions that ensure the ability to apply new learning to their lives.

(Please see the last page for ESL Modifications.)

Content Area		Technology		
Standard		8.1 Educational Technology: All students will use digital tools to access, manage, evaluate, and synthesize information in order to solve problems individually and collaboratively and to create and communicate knowledge.		
Strand		B. Creativity and Innovation: <i>Students demonstrate creative thinking, construct knowledge, and develop innovative products and process using technology.</i>		
Enduring Understandings: Digital tools offer opportunities for new experiences and means of outreach and collaboration that support creative and innovative approaches to problem solving and product development.		Essential Questions: How can I use technology to solve problems and create innovative solutions? How can technology help people collaborate and communicate effectively?		
Grade Level	Content Statement Students will:	Indicator	Indicator	Instructional Guidance

K	Apply existing knowledge to generate new ideas, products, or processes. Create original works as a means of personal or group expression.	8.1.2.B.1	Illustrate and communicate original ideas and stories using multiple digital tools and resources.	<p><u>Measurements of Understanding:</u> <i>To show evidence of meeting this CPI, students may complete the following assessment:</i></p> <ul style="list-style-type: none"> • By the end of the year, students will illustrate and communicate original story ideas and stories using multiple digital tools and resources.
<p>Domain Specific Vocabulary: Camera, Zoom, Google Meet, Collaboration, Communication, Internet, Microphone</p>			<p>Resources: Apps within G Suite and other age appropriate iPad apps Design Challenge Book List</p>	
<p>Connection to ISTE Standards for Students: ISTE Standard 1 - Empowered Learner - Students leverage technology to take an active role in choosing, achieving and demonstrating competency in their learning goals, informed by the learning sciences. ISTE Standard 2 - Digital Citizen - Students recognize the rights, responsibilities and opportunities of living, learning and working in an interconnected digital world, and they act and model in ways that are safe, legal and ethical. ISTE Standard 3 - Knowledge Constructor - Students critically curate a variety of resources using digital tools to construct knowledge, produce creative artifacts and make meaningful learning experiences for themselves and others. ISTE Standard 4 - Innovative Designer - Students use a variety of technologies within a design process to identify and solve problems by creating new, useful or imaginative solutions.</p>				

ISTE Standard 6 - Creative Communicator - Students communicate clearly and express themselves creatively for a variety of purposes using the platforms, tools, styles, formats and digital media appropriate to their goals.

ISTE Standard 7 - Global Communicator - Students use digital tools to broaden their perspectives and enrich their learning by collaborating with others and working effectively in teams locally and globally.

Special Education/504/Students at Risk of Failure Modifications:

Specific collaborative groupings of students per interpersonal skills and teacher observations.

Providing vocabulary and concept resources, diagrams and videos, among other resources to assist with understanding concepts and vocabulary.

Teacher Assistance with hands-on activities/projects and research.

Teacher modeling and/or providing (more or less) guidance during the inquiry process with specific projects.

Provide choice of activity.

Sentence starters for any written and verbal communication.

Scaffolding the amount of work (decrease or increase) based on skill sets and time allocations.

Multiple check-in opportunities for students, particularly during hands-on activities, projects, and other independent work.

Adapt the amount of personal assistance for specific learners.

G&T/Enrichment Modifications:

Provide choice of activity, presentation, and groups among appropriate projects.

Extend activities as appropriate.

Extend readings by offering varying and different text, including nonfiction, that is on a student's Lexile Level.

Offer additional opportunities for synthesis - Asking questions that encourage students to create new information from existing information.

Extend Metacognition - Asking questions which prompt students to think about their own thinking process, (successes and challenges).

Increase connections - Asking students questions that ensure the ability to apply new learning to their lives.

(Please see the last page for ESL Modifications.)

Content Area	Technology			
Standard	8.1 Educational Technology: All students will use digital tools to access, manage, evaluate, and synthesize information in order to solve problems individually and collaboratively and to create and communicate knowledge.			
Strand	C. Communication and Collaboration: Students use digital media and environments to communicate and work collaboratively, including at a distance, to support individual learning and contribute to the learning of others.			
Enduring Understandings: A person's ability to communicate and collaborate both locally and globally is enhanced by the use of digital tools/technology.			Essential Questions: How can technology help people collaborate and communicate effectively? How does technology help people communicate globally?	
Grade Level	Content Statement Students will:	Indicator	Indicator	Instructional Guidance
K	Interact, collaborate, and publish with peers, experts, or others by employing a variety of digital environments and media. Communicate information and ideas to multiple audiences using a variety of media and formats. Develop cultural understanding and global awareness by engaging with learners of other cultures. Contribute to project teams to produce original works or solve problems.	8.1.2.C.1	Engage in a variety of developmentally appropriate learning activities with students in other classes, schools, or countries using various media formats such as online collaborative tools, and social media.	<u>Measurements of Understanding</u> <i>To show evidence of meeting this CPI, students may complete the following assessment:</i> <ul style="list-style-type: none"> By the end of the year, students will engage in a variety of developmentally appropriate learning activities with students in other classes, schools, or countries using various media formats such as online collaborative tools, and social media.

Domain Specific Vocabulary: Camera, Zoom, Google Meet, Collaboration, Communication, Internet, Microphone	Resources: Apps within G Suite and other age appropriate iPad apps Design Challenge Book List
Career Readiness, Life Literacies, and Key Skills 9.4.12.CI.1: Demonstrate the ability to reflect, analyze, and use creative skills and ideas 9.4.12.CT.2: Explain the potential benefits of collaborating to enhance critical thinking and problem solving 9.4.12.CT.4: Participate in online strategy and planning sessions for course-based, school-based, or other projects and determine the strategies that contribute to effective outcomes. 9.4.12.IML.2: Evaluate digital sources for timeliness, accuracy, perspective, credibility of the source, and relevance of information, in media, data, or other resources. 9.4.12.IML.3: Analyze data using tools and models to make valid and reliable claims, or to determine optimal design solutions 9.4.12.IML.4: Assess and critique the appropriateness and impact of existing data visualizations for an intended audience Connection to ISTE Standards for Students: ISTE Standard 1 - Empowered Learner - Students leverage technology to take an active role in choosing, achieving and demonstrating competency in their learning goals, informed by the learning sciences. ISTE Standard 2 - Digital Citizen - Students recognize the rights, responsibilities and opportunities of living, learning and working in an interconnected digital world, and they act and model in ways that are safe, legal and ethical. ISTE Standard 3 - Knowledge Constructor - Students critically curate a variety of resources using digital tools to construct knowledge, produce creative artifacts and make meaningful learning experiences for themselves and others. ISTE Standard 4 - Innovative Designer - Students use a variety of technologies within a design process to identify and solve problems by creating new, useful or imaginative solutions. ISTE Standard 6 - Creative Communicator - Students communicate clearly and express themselves creatively for a variety of purposes using the platforms, tools, styles, formats and digital media appropriate to their goals. ISTE Standard 7 - Global Communicator - Students use digital tools to broaden their perspectives and enrich their learning by collaborating with others and working effectively in teams locally and globally.	

Special Education/504/Students at Risk of Failure Modifications:

Specific collaborative groupings of students per interpersonal skills and teacher observations.

Providing vocabulary and concept resources, diagrams and videos, among other resources to assist with understanding concepts and vocabulary.

Teacher Assistance with hands-on activities/projects and research.

Teacher modeling and/or providing (more or less) guidance during the inquiry process with specific projects.

Provide choice of activity.

Sentence starters for any written and verbal communication.

Scaffolding the amount of work (decrease or increase) based on skill sets and time allocations.

Multiple check-in opportunities for students, particularly during hands-on activities, projects, and other independent work.

Adapt the amount of personal assistance for specific learners.

G&T/Enrichment Modifications:

Provide choice of activity, presentation, and groups among appropriate projects.

Extend activities as appropriate.

Extend readings by offering varying and different text, including nonfiction, that is on a student's Lexile Level.

Offer additional opportunities for synthesis - Asking questions that encourage students to create new information from existing information. Extend

Metacognition - Asking questions which prompt students to think about their own thinking process, (successes and challenges).

Increase connections - Asking students questions that ensure the ability to apply new learning to their lives.

(Please see the last page for ESL Modifications.)

Climate Impacts Graph Matching

Core Idea: Students match graphs showing aspects of observed climate change with statements that describe the observations.

Learning Goal

Students interpret graphs of data that convey the impacts of climate change over the past century.

Performance Expectation:

<https://scied.ucar.edu/activity/climate-impacts-graph-matching>

Content Area	Technology
Standard	8.1 Educational Technology: All students will use digital tools to access, manage, evaluate, and synthesize information in order to solve problems individually and collaboratively and to create and communicate knowledge.
Strand	D. Digital Citizenship: Students understand human, cultural, and societal issues related to technology and practice legal and

<i>ethical behavior.</i>				
Enduring Understandings: Students must practice digital citizenship which includes taking responsibility for their online activities and understanding the impacts of their actions.			Essential Questions: What is personal property and content created by an individual and how is it protected?	
Grade Level	Content Statement Students will:	Indicator	Indicator	Instructional Guidance
K	Advocate and practice safe, legal, and responsible use of information and technology.	8.1.2.D.1	Develop an understanding of ownership of print and nonprint information.	<p><u>Measurement of Understanding</u> <i>To show evidence of meeting this CPI, students may complete the following assessment:</i></p> <ul style="list-style-type: none"> By the end of the year, students will develop an understanding of ownership of print and nonprint information.
Domain Specific Vocabulary: Acceptable Use Policy, policy, ethics, ownership, copyright			Resources: Apps within G Suite and other age appropriate iPad apps Design Challenge Book List	
Connection to ISTE Standards for Students: ISTE Standard 2 - Digital Citizen - Students recognize the rights, responsibilities and opportunities of living, learning and working in an interconnected digital world, and they act and model in ways that are safe, legal and ethical.				
<p>Special Education/504/Students at Risk of Failure Modifications: Specific collaborative groupings of students per interpersonal skills and teacher observations. Providing vocabulary and concept resources, diagrams and videos, among other resources to assist with understanding concepts and vocabulary. Teacher Assistance with hands-on activities/projects and research. Teacher modeling and/or providing (more or less) guidance during the inquiry process with specific projects. Provide choice of activity. Sentence starters for any written and verbal communication. Scaffolding the amount of work (decrease or increase) based on skill sets and time allocations. Multiple check-in opportunities for students, particularly during hands-on activities, projects, and other independent work. Adapt the amount of personal assistance for specific learners.</p> <p>G&T/Enrichment Modifications: Provide choice of activity, presentation, and groups among appropriate projects. Extend activities as appropriate. Extend readings by offering varying and different text, including nonfiction, that is on a student's Lexile Level. Offer additional opportunities for synthesis - Asking questions that encourage students to create new information from existing information. Extend Metacognition - Asking questions which prompt students to think about their own thinking process, (successes and challenges).</p>				

Increase connections - Asking students questions that ensure the ability to apply new learning to their lives.
(Please see the last page for ESL Modifications.)

Content Area		Technology		
Standard		8.1 Educational Technology: All students will use digital tools to access, manage, evaluate, and synthesize information in order to solve problems individually and collaboratively and to create and communicate knowledge.		
Strand		E. Research and Information Fluency: <i>Students apply digital tools to gather, evaluate, and use information.</i>		
Enduring Understandings: Information spreads worldwide within seconds due to technological advancements and has an immediate impact. The ability to find, evaluate, and use accurate information is more important than ever in the technological age.				Essential Questions: How can I use technology to solve problems? How does technology help people make decisions?
Grade Level	Content Statement Students will:	Indicator	Indicator	Instructional Guidance
K	Plan strategies to guide inquiry. Locate, organize, analyze, evaluate, synthesize, and ethically use information from a variety of sources and media. Evaluate and select information sources and digital tools based on the appropriateness for specific tasks.	8.1.2.E.1	Use digital tools and online resources to explore a problem or issue.	Measurements of Understanding <i>To show evidence of meeting this CPI, students may complete any of the following assessments:</i> <ul style="list-style-type: none"> By the end of the year, students will use digital tools and online resources to explore a problem or issue with the assistance of the teacher.
Domain Specific Vocabulary: Google Docs, collaborate, Canvas				Resources: Apps within G Suite and other age appropriate iPad apps Design Challenge Book List

Career Readiness, Life Literacies, and Key Skills

9.4.12.CI.1: Demonstrate the ability to reflect, analyze, and use creative skills and ideas

9.4.12.CT.2: Explain the potential benefits of collaborating to enhance critical thinking and problem solving

9.4.12.CT.4: Participate in online strategy and planning sessions for course-based, school-based, or other projects and determine the strategies that contribute to effective outcomes.

9.4.12.IML.2: Evaluate digital sources for timeliness, accuracy, perspective, credibility of the source, and relevance of information, in media, data, or other resources.

9.4.12.IML.3: Analyze data using tools and models to make valid and reliable claims, or to determine optimal design solutions

9.4.12.IML.4: Assess and critique the appropriateness and impact of existing data visualizations for an intended audience

Connection to ISTE Standards for Students:

ISTE Standard 1 - Empowered Learner - Students leverage technology to take an active role in choosing, achieving and demonstrating competency in their learning goals, informed by the learning sciences.

ISTE Standard 3 - Knowledge Constructor - Students critically curate a variety of resources using digital tools to construct knowledge, produce creative artifacts and make meaningful learning experiences for themselves and others.

ISTE Standard 4 - Innovative Designer - Students use a variety of technologies within a design process to identify and solve problems by creating new, useful or imaginative solutions.

ISTE Standard 6 - Creative Communicator - Students communicate clearly and express themselves creatively for a variety of purposes using the platforms, tools, styles, formats and digital media appropriate to their goals.

ISTE Standard 7 - Global Communicator - Students use digital tools to broaden their perspectives and enrich their learning by collaborating with others and working effectively in teams locally and globally.

Special Education/504/Students at Risk of Failure Modifications:

Specific collaborative groupings of students per interpersonal skills and teacher observations.

Providing vocabulary and concept resources, diagrams and videos, among other resources to assist with understanding concepts and vocabulary. Teacher Assistance with hands-on activities/projects and research.

Teacher modeling and/or providing (more or less) guidance during the inquiry process with specific projects.

Provide choice of activity.

Sentence starters for any written and verbal communication.

Scaffolding the amount of work (decrease or increase) based on skill sets and time allocations.

Multiple check-in opportunities for students, particularly during hands-on activities, projects, and other independent work.

Adapt the amount of personal assistance for specific learners.

G&T/Enrichment Modifications:

Provide choice of activity, presentation, and groups among appropriate projects.

Extend activities as appropriate.

Extend readings by offering varying and different text, including nonfiction, that is on a student's Lexile Level.

Offer additional opportunities for synthesis - Asking questions that encourage students to create new information from existing information.

Extend Metacognition - Asking questions which prompt students to think about their own thinking process, (successes and challenges).

Increase connections - Asking students questions that ensure the ability to apply new learning to their lives.

(Please see the last page for ESL Modifications.)

Content Area	Technology			
Standard	8.1 Educational Technology: All students will use digital tools to access, manage, evaluate, and synthesize information in order to solve problems individually and collaboratively and to create and communicate knowledge.			
Strand	F. Critical thinking, problem solving, and decision making: Students use critical thinking skills to plan and conduct research, manage projects, solve problems, and make informed decisions using appropriate digital tools and resources.			
Enduring Understandings: Each of us can have a global impact in today's world, so filtering information and applying critical thinking to solve problems and make decisions is a foundational skill.			Essential Questions: How do digital tools help people make decisions? How do digital tools/technology help manage projects?	
Grade Level	Content Statement Students will:	Indicator	Indicator	Instructional Guidance
K	<p>Identify and define authentic problems and significant questions for investigation.</p> <p>Plan and manage activities to develop a solution or complete a project.</p> <p>Collect and analyze data to identify solutions and/or make informed decisions.</p>	8.1.2.F.1	Use geographic mapping tools to plan and solve problems.	<p><u>Measurements of Understanding</u> <i>To show evidence of meeting this CPI, students may complete any of the following assessments:</i></p> <ul style="list-style-type: none"> By the end of the year, students will use geographic mapping tools to plan and solve problems.

	Use multiple processes and diverse perspectives to explore alternative solutions.			
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<p>Domain Specific Vocabulary: Google Maps, Google Earth, routes, GPS, geography</p>	<p>Resources: Apps within G Suite and other age appropriate iPad apps Design Challenge Book List</p>
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<p>Career Readiness, Life Literacies, and Key Skills 9.4.12.CI.1: Demonstrate the ability to reflect, analyze, and use creative skills and ideas 9.4.12.CT.2: Explain the potential benefits of collaborating to enhance critical thinking and problem solving 9.4.12.CT.4: Participate in online strategy and planning sessions for course-based, school-based, or other projects and determine the strategies that contribute to effective outcomes. 9.4.12.IML.2: Evaluate digital sources for timeliness, accuracy, perspective, credibility of the source, and relevance of information, in media, data, or other resources. 9.4.12.IML.3: Analyze data using tools and models to make valid and reliable claims, or to determine optimal design solutions 9.4.12.IML.4: Assess and critique the appropriateness and impact of existing data visualizations for an intended audience</p> <p>Connection to ISTE Standards for Students: ISTE Standard 1 - Empowered Learner - Students leverage technology to take an active role in choosing, achieving and demonstrating competency in their learning goals, informed by the learning sciences. ISTE Standard 3 - Knowledge Constructor - Students critically curate a variety of resources using digital tools to construct knowledge, produce creative artifacts and make meaningful learning experiences for themselves and others. ISTE Standard 4 - Innovative Designer - Students use a variety of technologies within a design process to identify and solve problems by creating new, useful or imaginative solutions. ISTE Standard 6 - Creative Communicator - Students communicate clearly and express themselves creatively for a variety of purposes using the platforms, tools, styles, formats and digital media appropriate to their goals. ISTE Standard 7 - Global Communicator - Students use digital tools to broaden their perspectives and enrich their learning by collaborating with others and working effectively in teams locally and globally.</p>

Special Education/504/Students at Risk of Failure Modifications:

Specific collaborative groupings of students per interpersonal skills and teacher observations.

Providing vocabulary and concept resources, diagrams and videos, among other resources to assist with understanding concepts and vocabulary.

Teacher Assistance with hands-on activities/projects and research.

Teacher modeling and/or providing (more or less) guidance during the inquiry process with specific projects.

Provide choice of activity.

Sentence starters for any written and verbal communication.

Scaffolding the amount of work (decrease or increase) based on skill sets and time allocations.

Multiple check-in opportunities for students, particularly during hands-on activities, projects, and other independent work.

Adapt the amount of personal assistance for specific learners.

G&T/Enrichment Modifications:

Provide choice of activity, presentation, and groups among appropriate projects.

Extend activities as appropriate.

Extend readings by offering varying and different text, including nonfiction, that is on a student's Lexile Level.

Offer additional opportunities for synthesis - Asking questions that encourage students to create new information from existing information.

Extend Metacognition - Asking questions which prompt students to think about their own thinking process, (successes and challenges).

Increase connections - Asking students questions that ensure the ability to apply new learning to their lives.

(Please see the last page for ESL Modifications.)

Content Area	Technology			
Standard	8.2 Technology Education, Engineering, Design, and Computational Thinking - Programming: All students will develop an understanding of the nature and impact of technology, engineering, technological design, computational thinking and the designed world as they relate to the individual, global society, and the environment.			
Strand	A. The Nature of Technology: Creativity and Innovation <i>Technology systems impact every aspect of the world in which we live.</i>			
Enduring Understandings: Digital tools/technologies are often products/systems that are designed to help people solve problems, create, communicate, and/or increase efficiency. Technology systems impact every aspect of the world in which we live.			Essential Questions: Why do we use technology tools? How does technology impact our world and the ways in which we live and communicate?	
Grade Level	Content Statement Students will be able to understand:	Indicator	Indicator	Instructional Guidance

K	The characteristics and scope of technology.	8.2.2.A.1	Define products produced as a result of technology or of nature.	<p><u>Measures of Understanding</u></p> <p><i>To show evidence of meeting this CPI, students may complete the following assessment:</i></p> <ul style="list-style-type: none"> ● By the end of the year, students will be able to define products produced as a result of technology or of nature. ● By the end of the year, students will be able to describe how designed products and systems are useful at school, home and work. ● By the end of the year, students will be able to identify a system and the components that work together to accomplish its purpose. ● By the end of the year, students will be able to choose a product to make and plan the tools ● By the end of the year, students will be able to collaborate to design a solution to a problem affecting the community.
		8.2.2.A.2	Describe how designed products and systems are useful at school, home and work.	
	The core concepts of technology.	8.2.2.A.3	Identify a system and the components that work together to accomplish its purpose.	
		8.2.2.A.4	Choose a product to make and plan the tools and materials needed.	
	The relationships among technologies and the connections between technology and other fields of study.	8.2.2.A.5	Collaborate to design a solution to a problem affecting the community.	
<p>Domain Specific Vocabulary: Technology tools, products, community, design</p>				<p>Resources: Apps within G Suite and other age appropriate iPad apps Design Challenge Book List</p>

Career Readiness, Life Literacies, and Key Skills

9.4.12.CI.1: Demonstrate the ability to reflect, analyze, and use creative skills and ideas

9.4.12.CT.2: Explain the potential benefits of collaborating to enhance critical thinking and problem solving

9.4.12.CT.4: Participate in online strategy and planning sessions for course-based, school-based, or other projects and determine the strategies that contribute to effective outcomes.

9.4.12.IML.2: Evaluate digital sources for timeliness, accuracy, perspective, credibility of the source, and relevance of information, in media, data, or other resources.

9.4.12.IML.3: Analyze data using tools and models to make valid and reliable claims, or to determine optimal design solutions

9.4.12.IML.4: Assess and critique the appropriateness and impact of existing data visualizations for an intended audience

Connection to ISTE Standards for Students:

ISTE Standard 1 - Empowered Learner - Students leverage technology to take an active role in choosing, achieving and demonstrating competency in their learning goals, informed by the learning sciences.

ISTE Standard 3 - Knowledge Constructor - Students critically curate a variety of resources using digital tools to construct knowledge, produce creative artifacts and make meaningful learning experiences for themselves and others.

ISTE Standard 4 - Innovative Designer - Students use a variety of technologies within a design process to identify and solve problems by creating new, useful or imaginative solutions.

ISTE Standard 6 - Creative Communicator - Students communicate clearly and express themselves creatively for a variety of purposes using the platforms, tools, styles, formats and digital media appropriate to their goals.

ISTE Standard 7 - Global Communicator - Students use digital tools to broaden their perspectives and enrich their learning by collaborating with others and working effectively in teams locally and globally.

Special Education/504/Students at Risk of Failure Modifications:

Specific collaborative groupings of students per interpersonal skills and teacher observations.

Providing vocabulary and concept resources, diagrams and videos, among other resources to assist with understanding concepts and vocabulary.

Teacher Assistance with hands-on activities/projects and research.

Teacher modeling and/or providing (more or less) guidance during the inquiry process with specific projects.

Provide choice of activity.

Sentence starters for any written and verbal communication.

Scaffolding the amount of work (decrease or increase) based on skill sets and time allocations.

Multiple check-in opportunities for students, particularly during hands-on activities, projects, and other independent work.

Adapt the amount of personal assistance for specific learners.

G&T/Enrichment Modifications:

Provide choice of activity, presentation, and groups among appropriate projects.

Extend activities as appropriate.

Extend readings by offering varying and different text, including nonfiction, that is on a student's Lexile Level.

Offer additional opportunities for synthesis - Asking questions that encourage students to create new information from existing information.

Extend Metacognition - Asking questions which prompt students to think about their own thinking process, (successes and challenges).

Increase connections - Asking students questions that ensure the ability to apply new learning to their lives.

(Please see the last page for ESL Modifications.)

Content Area	Technology			
Standard	8.2 Technology Education, Engineering, Design, and Computational Thinking - Programming: All students will develop an understanding of the nature and impact of technology, engineering, technological design, computational thinking and the designed world as they relate to the individual, global society, and the environment.			
Strand	B. Technology and Society: <i>Knowledge and understanding of human, cultural and societal values are fundamental when designing technological systems and products in the global society.</i>			
Enduring Understandings: Knowledge and understanding of human, cultural and societal values are fundamental when designing technology systems and products in the global society. Technology has the ability to impact and improve the lives of individuals and societies.			Essential Questions: Why do we use technology tools?	
Grade Level	Content Statement Students will be able to understand:	Indicator	Indicator	Instructional Guidance
K	The cultural, social, economic and political effects of technology.	8.2.2.B.1	Identify how technology impacts or improves life.	<u>Measures of Understanding</u> <i>To show evidence of meeting this CPI, students may complete the following assessment:</i> <ul style="list-style-type: none"> • By the end of the year, students will be able to identify how technology impacts or improves life. • By the end of the year, students will be able to demonstrate how reusing a product affects the local and global environment. • By the end of the year, students will be able to identify products or systems that are designed to meet human needs. • By the end of the year, students will be able to identify how the ways people live and work has changed because of technology.
	The effects of technology on the environment.	8.2.2.B.2	Demonstrate how reusing a product affects the local and global environment.	
	The role of society in the development and use of technology.	8.2.2.B.3	Identify products or systems that are designed to meet human needs.	
	The influence of technology on history.	8.2.2.B.4	Identify how the ways people live and work has changed because of technology.	
Domain Specific Vocabulary: Technology tools, products, community, design, environment, Internet, Email			Resources: Apps within G Suite and other age appropriate iPad apps Design Challenge Book List	

Career Readiness, Life Literacies, and Key Skills

9.4.12.CI.1: Demonstrate the ability to reflect, analyze, and use creative skills and ideas

9.4.12.CT.2: Explain the potential benefits of collaborating to enhance critical thinking and problem solving

9.4.12.CT.4: Participate in online strategy and planning sessions for course-based, school-based, or other projects and determine the strategies that contribute to effective outcomes.

9.4.12.IML.2: Evaluate digital sources for timeliness, accuracy, perspective, credibility of the source, and relevance of information, in media, data, or other resources.

9.4.12.IML.3: Analyze data using tools and models to make valid and reliable claims, or to determine optimal design solutions

9.4.12.IML.4: Assess and critique the appropriateness and impact of existing data visualizations for an intended audience

Connection to ISTE Standards for Students: ISTE Standard 1 - Empowered Learner - Students leverage technology to take an active role in choosing, achieving and demonstrating competency in their learning goals, informed by the learning sciences.

ISTE Standard 3 - Knowledge Constructor - Students critically curate a variety of resources using digital tools to construct knowledge, produce creative artifacts and make meaningful learning experiences for themselves and others.

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Sentence starters for any written and verbal communication.

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Adapt the amount of personal assistance for specific learners.

G&T/Enrichment Modifications:

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Extend activities as appropriate.

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Extend Metacognition - Asking questions which prompt students to think about their own thinking process, (successes and challenges).

Increase connections - Asking students questions that ensure the ability to apply new learning to their lives.

(Please see the last page for ESL Modifications.)

Content Area		Technology		
Standard		8.2 Technology Education, Engineering, Design, and Computational Thinking – Programming: All students will develop an understanding of the nature and impact of technology, engineering, technological design, computational thinking and the designed world as they relate to the individual, global society, and the environment.		
Strand		C. Design: <i>The design process is a systematic approach to solving problems.</i>		
Enduring Understandings: The design process is a systematic approach to solving problems.				Essential Questions: How can one develop a solution for a problem using the design process? How can one improve a product/process through the reflection/iteration process? Why is asking questions about the world an important characteristic/component of the design process?
Grade Level	Content Statement Students will be able to understand:	Indicator	Indicator	Instructional Guidance
K	The attributes of design.	8.2.2.C.1	Brainstorm ideas on how to solve a problem or build a product.	<u>Measures of Understanding</u> <i>To show evidence of meeting this CPI, students may complete the following assessment:</i> <ul style="list-style-type: none"> By the end of the year, students will be able to brainstorm ideas on how to solve a problem or build a product. By the end of the year, students will be able to create a drawing of a product or device that communicates its function to peers and discuss. By the end of the year, students will be able to explain why we need to make new products. By the end of the year, students will be able to identify designed products and brainstorm how to improve one used in the classroom. By the end of the year, students will be able to describe how the parts of a common toy or tool interact and work as part of a system. By the end of the year, students will be able to investigate a product that has stopped working and brainstorm ideas to correct the problem.
		8.2.2.C.2	Create a drawing of a product or device that communicates its function to peers and discuss.	
		8.2.2.C.3	Explain why we need to make new products.	
	The application of engineering design.	8.2.2.C.4	Identify designed products and brainstorm how to improve one used in the classroom.	
		8.2.2.C.5	Describe how the parts of a common toy or tool interact and work as part of a system.	

	The role of troubleshooting, research and development, invention and innovation and experimentation in problem solving.	8.2.2.C.6	Investigate a product that has stopped working and brainstorm ideas to correct the problem.	
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<p>Domain Specific Vocabulary: Technology tools, products, community, design, environment, Design Process, engineering.</p>	<p>Resources: Apps within G Suite and other age appropriate iPad apps Design Challenge Book List</p>
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<p>Career Readiness, Life Literacies, and Key Skills</p> <p>9.4.12.CI.1: Demonstrate the ability to reflect, analyze, and use creative skills and ideas</p> <p>9.4.12.CT.2: Explain the potential benefits of collaborating to enhance critical thinking and problem solving</p> <p>9.4.12.CT.4: Participate in online strategy and planning sessions for course-based, school-based, or other projects and determine the strategies that contribute to effective outcomes.</p> <p>9.4.12.IML.2: Evaluate digital sources for timeliness, accuracy, perspective, credibility of the source, and relevance of information, in media, data, or other resources.</p> <p>9.4.12.IML.3: Analyze data using tools and models to make valid and reliable claims, or to determine optimal design solutions</p> <p>9.4.12.IML.4: Assess and critique the appropriateness and impact of existing data visualizations for an intended audience</p> <p>Connection to ISTE Standards for Students:</p> <p>ISTE Standard 1 - Empowered Learner - Students leverage technology to take an active role in choosing, achieving and demonstrating competency in their learning goals, informed by the learning sciences.</p> <p>ISTE Standard 3 - Knowledge Constructor - Students critically curate a variety of resources using digital tools to construct knowledge, produce creative artifacts and make meaningful learning experiences for themselves and others.</p> <p>ISTE Standard 4 - Innovative Designer - Students use a variety of technologies within a design process to identify and solve problems by creating new, useful or imaginative solutions.</p> <p>ISTE Standard 6 - Creative Communicator - Students communicate clearly and express themselves creatively for a variety of purposes using the platforms, tools, styles, formats and digital media appropriate to their goals.</p>

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Teacher Assistance with hands-on activities/projects and research.

Teacher modeling and/or providing (more or less) guidance during the inquiry process with specific projects.

Provide choice of activity.

Sentence starters for any written and verbal communication.

Scaffolding the amount of work (decrease or increase) based on skill sets and time allocations.

Multiple check-in opportunities for students, particularly during hands-on activities, projects, and other independent work.

Adapt the amount of personal assistance for specific learners.

G&T/Enrichment Modifications:

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Extend activities as appropriate.

Extend readings by offering varying and different text, including nonfiction, that is on student's Lexile Level.

Offer additional opportunities for synthesis - Asking questions that encourage students to create new information from existing information.

Extend Metacognition - Asking questions which prompt students to think about their own thinking process, (successes and challenges).

Increase connections - Asking students questions that ensure the ability to apply new learning to their lives.

(Please see the last page for ESL Modifications.)

Content Area	Technology
Standard	8.2 Technology Education, Engineering, Design, and Computational Thinking - Programming: All students will develop an understanding of the nature and impact of technology, engineering, technological design, computational thinking and the designed world as they relate to the individual, global society, and the environment.
Strand	D. Abilities for a Technological World: <i>The designed world is the product of a design process that provides the means to convert resources into products and systems.</i>

<p>Enduring Understandings: The designed world is the product of a design process that provides the means to convert resources into products and systems. The design process is a systematic approach to solving problems.</p>				<p>Essential Questions: How can one develop a solution for a problem using the design process? How can one improve a product/process through the reflection/iteration process? Why is asking questions about the world an important characteristic/component of the design process? How does one communicate/collaborate as a part of a team to implement the design process?</p>
Grade Level	Content Statement Students will understand how to:	Indicator	Indicator	Instructional Guidance
K	Apply the design process.	8.2.2.D.1	Collaborate and apply a design process to solve a simple problem from everyday experiences.	<p>Measures of Understanding <i>To show evidence of meeting this CPI, students may complete the following assessment:</i></p> <ul style="list-style-type: none"> By the end of the year, students will be able to collaborate and apply a design process to solve a simple problem from everyday experiences. By the end of the year, students will be able to discover how a product works by taking it apart, sketching how parts fit, and putting it back together. By the end of the year, students will be able to identify the strengths and weaknesses in a product or system. By the end of the year, students will be able to identify the resources needed to create technological products or systems. By the end of the year, students will be able to identify how using a tool (such as a bucket or wagon) aids in reducing work.
	Use and maintain technological products and systems.	8.2.2.D.2	Discover how a product works by taking it apart, sketching how parts fit, and putting it back together.	
		8.2.2.D.3	Identify the strengths and weaknesses in a product or system.	
		8.2.2.D.4	Identify the resources needed to create technological products or systems.	
Assess the impact of products and systems.	8.2.2.D.5	Identify how using a tool (such as a bucket or wagon) aids in reducing work.		
<p>Domain Specific Vocabulary: Technology tools, products, community, design, environment, Design Process, engineering</p>				<p>Resources: Apps within G Suite and other age appropriate iPad apps Design Challenge Book List Activities with lesson plans: Online bullying:</p>

<https://www.common sense.org/education/digital-citizenship/lesson/putting-a-stop-to-online-meanness>

Tech & feelings:

<https://www.common sense.org/education/digital-citizenship/lesson/how-technology-makes-you-feel>

<https://www.common sense.org/education/digital-citizenship/lesson/device-free-moments>

Climate/Responsibility:

<https://www.common sense.org/education/digital-citizenship/lesson/your-rings-of-responsibility>

Minorities in technology:

<https://www.readworks.org/article/Important-African-American-Figures/c46412b6-57bc-4027-90a5-d038d30ff3c2#!articleTab:content/contentSection:2555eb35-6e1d-408b-9723-1014cee7e977/>

Career Readiness, Life Literacies, and Key Skills

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9.4.12.IML.2: Evaluate digital sources for timeliness, accuracy, perspective, credibility of the source, and relevance of information, in media, data, or other resources.

9.4.12.IML.3: Analyze data using tools and models to make valid and reliable claims, or to determine optimal design solutions

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Connection to ISTE Standards for Students:

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Special Education/504/Students at Risk of Failure Modifications:

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Provide choice of activity.

Sentence starters for any written and verbal communication.

Scaffolding the amount of work (decrease or increase) based on skill sets and time allocations.

Multiple check-in opportunities for students, particularly during hands-on activities, projects, and other independent work.

Adapt the amount of personal assistance for specific learners.

G&T/Enrichment Modifications:

Provide choice of activity, presentation, and groups among appropriate projects.

Extend activities as appropriate.

Extend readings by offering varying and different text, including nonfiction, that is on a student's Lexile Level.

Offer additional opportunities for synthesis - Asking questions that encourage students to create new information from existing information.

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Increase connections - Asking students questions that ensure the ability to apply new learning to their lives.

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Content Area	Technology	
Standard	8.2 Technology Education, Engineering, Design, and Computational Thinking - Programming: All students will develop an understanding of the nature and impact of technology, engineering, technological design, computational thinking and the designed world as they relate to the individual, global society, and the environment.	
Strand	E. Computational Thinking: Programming: <i>Computational thinking builds and enhances problem solving, allowing students to move beyond using knowledge to creating knowledge.</i>	
Enduring Understandings: Computational thinking builds and enhances problem solving, allowing students to move beyond using knowledge to creating knowledge. Computational thinking (coding/computer programming and the logic involved) is a digital tool in which all of today's Internet technology is based on.		Essential Questions: How can one develop a solution for a problem using the design process and computational thinking (computer programming/coding and logic)?

Grade Level	Content Statement Students will be able to understand:	Indicator	Indicator	Instructional Guidance
K	Computational thinking and computer programming as tools used in design and engineering.	8.2.2.E.1	List and demonstrate the steps to an everyday task.	<p><u>Measures of Understanding</u> <i>To show evidence of meeting this CPI, students may complete the following assessment:</i></p> <ul style="list-style-type: none"> ● By the end of the year, students will be able to list and demonstrate the steps to an everyday task. ● By the end of the year, students will be able to demonstrate an understanding of how a computer takes input through a series of written commands and then interprets and displays information as output. ● By the end of the year, students will be able to create algorithms (sets of instructions) using a predefined set of commands (e.g., to move a student or a character through a maze). ● By the end of the year, students will be able to debug an algorithm (i.e., correct an error). ● By the end of the year, students will be able to use appropriate terms in conversation (e.g., basic vocabulary words: input, output, the operating system, debug, and algorithm).
		8.2.2.E.2	Demonstrate an understanding of how a computer takes input through a series of written commands and then interprets and displays information as output.	
		8.2.2.E.3	Create algorithms (sets of instructions) using a predefined set of commands (e.g., to move a student or a character through a maze).	
		8.2.2.E.4	Debug an algorithm (i.e., correct an error).	
		8.2.2.E.5	Use appropriate terms in conversation (e.g., basic vocabulary words: input,	
			output, the operating system, debug, and algorithm).	
	<p>Unplugged Activities: Shared Unplugged Programming K-2 □</p> <p>https://teachinglondoncomputing.org/pixel-puzzles/</p> <p>https://technologyforlearners.com/wp-content/uploads/2015/03/KS1-Crazy-Character-Algorithms-Activity-PDF-Barefoot-Computing2.pdf</p> <p>https://sites.google.com/sfusd.edu/k-2cs/orange/unit-1-unplugged-cs</p> <p>https://code.org/curriculum/course1/1/Teacher#Vocab</p> <p>Books in our Library:</p> <p>Girls Who Code</p> <p>Real World Math: Coding</p> <p>Kids Get Coding: Kids Get Coding: Programming Games and Animation</p>			

Kids Get Coding: Kids Get Coding: Learn to Program
Rookie Get Ready to CodeTM: Design a Game

Domain Specific Language

Digital tools, email, computer programming, coding, logic, algorithm, puzzle, computational thinking

Resources

Apps within G Suite and other age appropriate iPad apps
[Design Challenge Book List](#)

Career Readiness, Life Literacies, and Key Skills

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Connection to ISTE Standards for Students:

ISTE Standard 3 - Knowledge Constructor - Students critically curate a variety of resources using digital tools to construct knowledge, produce creative artifacts and make meaningful learning experiences for themselves and others.

ISTE Standard 4 - Innovative Designer - Students use a variety of technologies within a design process to identify and solve problems by creating new, useful or imaginative solutions.

ISTE Standard 5 - Computational Thinking - Students develop and employ strategies for understanding and solving problems in ways that leverage the power of technological methods to develop and test solutions.

ISTE Standard 6 - Creative Communicator - Students communicate clearly and express themselves creatively for a variety of purposes using the platforms, tools, styles, formats and digital media appropriate to their goals.

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Additional Resources

Common Sense Education Digital Literacy and Citizenship ISTE Alignment and Curriculum resource for K-2 - [Grades K-2](#)

Common Sense Education Instructional Resources - [Digital Citizenship Curriculum | Common Sense Education](#)

Glossary

Basic technology terms for kindergarten and grade 1: For example, camera, battery, screen, computer, Internet, mouse, keyboard, and printer.

Controversial issue: For example, global warming, scarcity of water, alternative energy sources, election campaigns.

Current and emerging technology resources: For example, hand-helds, GPS, online communities using wikis, blogs, vlogs, and/or Nings.

Data-collection technology: For example, probes, handheld devices, and geographic mapping systems.

Developmentally appropriate: Students' developmental levels prescribe the learning environment and activities that are used.

Digital tools for kindergarten through grade 2: For example, computers, cameras, software, laptops.

Digital tools for grades three through 8: For example, computers, digital cameras, flip/video cam, probing devices, software, cell phones, GPS, online communities, VOIP, and virtual conferences.

Electronic authoring tools: Software that facilitates online book development (e.g., multimedia electronic book).

Mapping tools: For example, Google earth and Google maps.

Media-rich: Multiple forms of digital applications in one product (e.g., graphic design, word processing, and spreadsheet).

Multimedia presentation: For example, movie, podcast, vlog.

Online discussion: Online discussion is a relatively new form of communication, facilitated usually by computer networks. For example, Oracle, i-Earn, blogs, wikis.

Online learning community: An online learning community is a common place on the Internet that addresses the learning needs of its members through proactive and collaborative partnerships. Through social networking and computer-mediated communication, people work as a community to achieve a shared learning objective. For example, i-Earn, Ning, blogs, wikis, Second Life.

Operations and related applications: For example, saving a word processing file to a network drive, printing a spreadsheet.

Reverse engineer: To isolate the components of a completed system.

Shared hosted services: Refers to a web hosting service where many websites reside on one web server connected to the Internet. For example, podcasts, videos, or vlogs.

Technologies: Medical, agricultural, and related biotechnologies, energy and power technologies, information and communications technologies, transportation technologies, manufacturing technologies, and construction technologies.

Virtual environments: For example, games, simulations, websites, blogs.

Web-based publication: includes the digital publication of e-books, EPUBs, and electronic articles, and the development of digital libraries and catalogues. For example, web pages, wikis, blogs, ezines.

ESL Modifications:

This list includes the accommodations and modifications commonly used to address the needs of ELL students.

<p><u>Content/Material Accommodations/Modifications</u> Allow extra time for task completion</p>	<p><u>Organizational Accommodations</u> Use a consistent daily routine Break down tasks into manageable units</p>
<p><u>Instructional Accommodations</u> Frequently check for understanding Emphasize use of visual aids Simplify task directions Provide hands-on learning activities Provide modeling Assign peer buddies Modify pace of instruction to allow additional processing time Provide small group instruction Demonstrate directions and provide a model or example of completed task Emphasize multi-sensory presentation of data Allow for repetition and/or clarification of directions, as needed Directions repeated, clarified or reworded Provide multi-sensory instruction Allow wait time for processing before calling on student for response Provide visual models of completed tasks</p>	<p><u>Accommodations for Attention/Focus</u> Seat student near front of room Preferential seating Monitor on-task performance Establish and maintain eye contact when giving oral directions Provide short breaks when refocusing is needed Refocusing and redirection</p> <p><u>Supplemental Services</u> 1:1 Assistant Prompting, cueing and redirecting student participation Reinforcing of personal, social, behavioral and academic learning goals</p>
<p><u>Social/Behavioral Accommodations</u> Provide opportunities for peer interactions Encourage student to self-advocate Present alternatives to negative behavior Monitor for overload, excess stimuli Maintain communication with home Provide positive reinforcement Provide consistent praise to elevate self esteem Model and role play problem solving</p>	