	Pine Hill Public Schools Curriculum					
Content Area: Technology						
Course Titl	e/ Grade Level:	Third Grade	Grade			
Unit 1:	Internet Safety		Duration:	September-October		
Unit 2: Computers to Comm		unicate: Word	Duration:	October-November		
Unit 3: Computers to Organiz		ze Information	Duration:	December		
Unit 4:	Unit 4: Coding		Duration:	December		
Unit 5:	Keyboarding and Wo	ord Processing	Duration:	January		
Unit 6:	Unit 6: Computers to Communicate: Research & Non-Fiction		Duration:	Qtr. 3		
Unit 7: STEAM & Year End Review			Duration:	Qtr. 4		
BOE Appro	BOE Approved Revision:					
BOE Initial	l Adoption Date: A	ugust 23, 2016				

	Pine Hill Public Schools						
			Curri	culum			
Unit	Title Interne	et Safety				Unit 7	#: 1
Cour	se or Grade	e Level: Thir	d Grade	Lengtl	n of Time: September	-Octob	er
Pacir	ıg	6 weeks/session	ons	•			
Esser Ques			esponsibilities as a member of a tion is safe to share with others		community?		
Cont	ent	• Internet Sa	fety				
Skills	sments	 Personal vs. Private Information Online Expectations Writing and Sending Emails Student Work: worksheets, online assessments 					
113303	sincires	• Teacher Observation					
differ	ventions / rentiated uction	 Video Directions Picture Icons 					
ary	-disciplin nections	 Health: safety ELA: writing 					
Lessou resou Activ	rces /	 Teachers Pay Teachers Resource: Technology Teacher Planning Binder, Grade 3 BrainPOP Jr. NetSmartz Kids Common Sense Media Google Apps 					
				JCCCS			
synth			chnology: All students will er to solve problems individ	_		_	
	` '	ital Citizensh d ethical beha	ip: Students understand hum vior.	ian, cult	ural, and societal issue	s relate	d to technology and
	Content Statement(s): Demonstrate personal responsibility for lifelong learning. CPI # / CPI(s): 8.1.5.D.3 Demonstrate an understanding of the need to practice cyber safety, cyber security, and cyber ethics when using technologies and social media.					and cyber ethics	
Exhib	Exhibit leadership for digital citizenship. 8.1.5.D.4 Understand digital citizenship and demonstrate an understanding of the personal consequences of inappropriate use of technology and social media.					sequences of	
			21st Centu	ry Then	nes		
X	Global Awa	reness	Financial, Economic, Business, and Entrepreneuria Literacy		Civic Literacy		Health Literacy
			21st Cent		<u>ls</u>		
	Creativity		Critical Thinking and Problem	n x	Communication and	Х	Information Literacy

Media Literacy X Lite and Career Skins		Media Literacy	X	ICT Literacy	X	Life and Career Skills
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	Length of Time: Octo	Unit #: 2 ber-November			
6 weeks/sessions How do we use a word processor to a	Length of Time: Octo	ber-November			
How do we use a word processor to					
How do we use a word processor to create documents? How can we apply what we know about Microsoft Word to use other word processors like Google Docs?					
MS Word Google Docs					
 Create a document Change font, size, color Add picture/clip art Save and Share work with others 					
Student WorkTeacher ObservationUnit Test					
 Video Directions Picture Icons					
• ELA: writing, typing, formatting					
Teachers Pay Teachers Resource: Technology Teacher Planning Binder, Grade 3					
	 Student Work Teacher Observation Unit Test Video Directions Picture Icons • ELA: writing, typing, formatting	 Student Work Teacher Observation Unit Test Video Directions Picture Icons ELA: writing, typing, formatting Teachers Pay Teachers Resource: Technology Teacher Planning 			

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 collaborate and to create and communicate knowledge.

Strand(s): A. Technology Operations and Concepts: Students demonstrate a sound understanding of technology concepts, systems and operations.

Content Statement(s):	CPI # / CPI(s):
Understand and use technology systems.	8.1.5.A.1 Select and use the appropriate digital tools and resources to accomplish a variety of tasks including solving problems.
Select and use applications effectively and productively.	8.1.5.A.2 Format a document using a word processing application to enhance text and include graphics, symbols and/ or pictures.

21st Century Themes							
Global		Financial, Economic,		Civic Literacy		Health Literacy	
Awareness		Business, and					
Entrepreneurial Literacy							
21st Century Skills							
Creativity and x Critical Thinking and x Communication and Information						Information	
Innovation Problem Solving Collaboration Literacy						Literacy	
Media Literacy x ICT Literacy x Life and Career Skills				er Skills			

Pine Hill Public Schools							
	Curri	culum					
Unit Title Cor	nputers to Organize Information		Unit #: 3				
Course or Gr	ıber						
Pacing	2 weeks/sessions						
Essential Questions							
Content	MS Excel Google Sheets						
Skills	 Creating a Survey Table to organize results Graph data Sort data Analyze results 						
Assessments							
Intervention s / differentiate d instruction	Peer/Partner WorkPicture Icons						
Inter-discipl inary Connections							
Lesson resources / Activities	http://oakdome.com/k5/lesson-plans/third-grade-lesson-plans.php						
2014 NJCCCS							

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 collaborate and to create and communicate knowledge.

Strand(s): A. Technology Operations and Concepts: *Students demonstrate a sound understanding of technology concepts, systems and operations.*

Content Statement(s):			CPI # / CPI(s):				
Select and use applications effectively and			8.1.5.A.4 Graph data using a spreadsheet, analyze				
productively.			and p	roduce a report that e	xplai	ns the analysis of	
			the da	ata.			
			8.1.5.A.5 Create and use a database to answer				
				basic questions.			
21st Century Themes							
	Global	X	Financial, Economic,		Civic Literacy		Health Literacy
	Awareness		Business, and				
			Entrepreneurial Literacy				
	21st Century Skills						
	Creativity and	X	Critical Thinking and	X	Communication and	X	Information
	Innovation		Problem Solving		Collaboration		Literacy
	Media Literacy	X	ICT Literacy	X	Life and	Caree	r Skills

	Pine Hill Public Schools Curriculum						
Unit Title Coo	Unit Title Coding Unit #: 4						
Course or Gr	ade Level: Third Grade	Length of Time: Decem	ber				
Pacing	2 weeks/sessions						
Essential Questions	How do people communicate with com How do people create computer applic						
Content	• Coding						
Skills	 Creating an algorithm Debugging algorithm Create program Coding vocabulary 						
Assessments	Student WorkTeacher Observation						
Intervention s / differentiate d instruction	Peer/Partner Work Picture Icons						
Inter-discipl inary Connections	•						
Lesson resources / Activities • Code.org, Course 1, Stage 7							
	2014 N	JCCCS					
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(s): E. Computational Thinking: Programming: Computational thinking builds and enhances problem solving, allowing students to move beyond using knowledge to creating knowledge.

Content Statement(s): CPI # / CPI(s): Computational thinking and computer **8.2.5.E.1** Identify how computer programming programming as tools used in design and impacts our everyday lives **8.2.5.E.2** Demonstrate an understanding of how a engineering. computer takes input of data, processes and stores the data through a series of commands, and outputs information. **8.2.5.E.3** Using a simple, visual programming language, create a program using loops, events and procedures to generate specific output. **8.2.5.E.4** Use appropriate terms in conversation (e.g., algorithm, program, debug, loop, events, procedures, memory, storage, processing, software, coding, procedure, and data). 21st Century Themes Financial, Economic, Civic Literacy Health Literacy Global Awareness Business, and Entrepreneurial Literacy 21st Century Skills

Communication and

Collaboration

Life and Career Skills

Information

Literacy

Creativity and

Innovation

Media Literacy

X

Critical Thinking and

Problem Solving

ICT Literacy

	Pine Hill Public Schools Curriculum					
Unit Title Key	Unit Title Keyboarding & Word Processing Unit #: 5					
Course or Grade Level: Third Grade Length of Time: January						
Pacing	4 weeks/sessions	L				
Essential Questions	How can I become a more efficient typist? How does typing accurately help me complete tasks on the computer?					
Content	Keyboarding Word Processing					
Skills	 Typing Hand placement Word Processing skill application (font, size, color, graphics, copy/paste) 					
Assessments						

	Weekly Typing Progress				
Intervention	Peer/Partner Work				
s/	Video Instructions				
differentiate	Choice of keyboarding program				
d					
instruction					
Inter-discipl	ELA: typing fluently				
inary					
Connections					
Lesson	Dance Mat Typing				
resources /	ABCya Typing Games				
Activities	• Typingtest.com				
rictivities	• http://oakdome.com/k5/lesson-plans/word/i-have-a-dream-poem-generator.php				
	2014 NECCC				

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 collaborate and to create and communicate knowledge.

Strand(s): B. Creativity and Innovation: *Students demonstrate creative thinking, construct knowledge and develop innovative products and process using technology.*

Content Statement(s):

Apply existing knowledge to generate new ideas, products, or processes.

Create original works as a means of personal or group expression.

CPI # / CPI(s):

8.1.5.B.1 Collaborative to produce a digital story about a significant local event or issue based on first-person interviews.

21st Century Themes Financial, Economic, Civic Literacy Health Literacy Global \mathbf{X} Awareness Business, and Entrepreneurial Literacy 21st Century Skills Critical Thinking and Communication and Creativity and X Information X Problem Solving Innovation Collaboration Literacy ICT Literacy Life and Career Skills Media Literacy

Pine Hill Public Schools							
	Curriculum						
Unit Title Con	Unit Title Computers to Communicate: Research and Non-fiction Unit #: 6						
Course or Gr	Course or Grade Level: Third Grade Length of Time: Qtr. 3						
Pacing	10 weeks/sessions						
Essential Questions	How can I find information online efficiently? How can I remember new facts I've learned? How can I tell if I am getting information from an expert? How do I give credit to others for helping me learn?						

Content	Searching				
	Note Taking				
	Evaluating Sources				
	Citing Sources				
Skills	Using keywords				
	Evaluating Sources				
	Taking Notes				
	Citing website or author of information				
Assessments					
	 Student Work: notes, worksheets, organizers 				
	Teacher Observation				
Intervention	Peer/Partner Work				
s /	Leveled Graphic Organizers				
differentiate					
d					
instruction					
Inter-discipl	Science: animals				
inary	Social Studies: history, biographies				
Connections	ELA: reading comprehension, writing, note taking				
Lesson	• http://oakdome.com/k5/lesson-plans/third-grade-Q3-lesson-plans.php				
resources /					
Activities					
2014 NICCCS					

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 collaborate and to create and communicate knowledge.

Strand(s):

- **A. Technology Operations and Concepts:** Students demonstrate a sound understanding of technology concepts, systems and operations.
- **D. Digital Citizenship:** Students understand human, cultural, and societal issues related to technology and practice legal and ethical behavior.
- **E: Research and Information Fluency:** Students apply digital tools to gather, evaluate, and use information.

ingoi	iijoi maiion.						
	tent Statement(s)	CPI # / CPI(s):					
Select and use applications effectively and			8.1.5.A.3 Use a graphic organizer to organize				
prod	luctively.		infor	mation about problem	or is	ssue.	
				•			
Adv	ocate and practice	8.1.5.D.1 Understand the need for and use of					
use	use of information and technology.			copyrights.			
				8.1.5.D.2 Analyze the resource citations in online			
		materials for proper use.					
Eval	Evaluate and select information sources and			8.1.5.E.1 Use digital tools to research and			
digit	digital tools based on the appropriateness for			evaluate the accuracy of, relevance to, and			
spec	specific tasks.			appropriateness of using print and non-print			
1	Transfer and the second			electronic information sources to complete a			
		variety of tasks.					
		21st C		·			
		21st Centur	ry I ne	<u>emes</u>			
	Global	Financial, Economic,		Civic Literacy		Health Literacy	
	Awareness	Business, and					
		Entrepreneurial Literacy					

21st Century Skills							
Х	Creativity and Innovation		Critical Thinking and Problem Solving	Х	Communication and Collaboration	X	Information Literacy
Х	Media Literacy	X	ICT Literacy	Х	Life and Career Skills		

Pine Hill Public Schools							
Curriculum							
Unit Title STI	Unit #: 7						
Course or Gr	ade Level: Third Grade	Length of Time: Qtr. 4					
Pacing	10 weeks/sessions						
Essential Questions	How do materials influence design? How are new products created? How does technology change the way products design?	people live and work?					
Content	Engineering						
Skills	 Design process Blueprints Problem Solving Testing/Evaluating products 						
Assessments	Student Work: projects, graphTeacher Observation	ic organizers, blueprints					
Intervention s / differentiate d instruction	Peer/Partner work Leveled graphic organizers						
Inter-discipl inary Connections	 Science: engineering, technology, na ELA: expository writing, persuasive 						
Lesson resources / Activities	 Build a pollinator Build a bridge Build a tower Fix/Redesign a tool or toy 						
2014 NJCCCS							

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(s):

- **C. Design:** The design process is a systematic approach to solving problems.
- **D. Abilities for a Technological World:** *The designed world is the product of a design process that provides the means to convert resources into products and systems.*

Content Statement(s): The attributes of design.				CPI # / CPI(s): 8.2.5.C.1 Collaborate with peers to illustrate components of a designed system. 8.2.5.C.2 Explain how specifications and limitations can be used to direct a product's development.			
The application of engineering design.				 8.2.5.C.4 Collaborate and brainstorm with peers to solve a problem evaluating all solutions to provide the best results with supporting sketches or models. 8.2.5.C.5 Explain the functions of a system and subsystems. 			
The role of troubleshooting, research and development, invention and innovation and experimentation in problem solving.				8.2.5.C.6 Examine a malfunctioning tool and identify the process to troubleshoot and present options to repair the tool.8.2.5.C.7Work with peers to redesign an existing product for a different purpose.			
Apply the design process.				8.2.5.D.1 Identify and collect information about a problem that can be solved by technology, generate ideas to solve the problem, and identify constraints and trade-offs to be considered. 8.2.5.D.2 Evaluate and test alternative solutions to a problem using the constraints and trade-offs identified in the design process to evaluate potential solutions.			
Use and maintain technological products and systems.				8.2.5.D.3 Follow step by step directions to assemble a product or solve a problem.			
			21st Centur	y The	<u>emes</u>		
	Global Awareness		Financial, Economic, Business, and Entrepreneurial Literacy		Civic Literacy		Health Literacy
			21st Centu	ıry Sk	<u>ills</u>		
X	Creativity and Innovation Media Literacy	Х	Critical Thinking and Problem Solving ICT Literacy	X	Communication and Collaboration Life and C	Caree	Information Literacy or Skills
	3		<u> </u>				