

Pine Hill Public Schools Curriculum

Content Area:		Business/Tech Ed.	
Course Title/ Grade Level:		Google Drive and Cloud Computing	
Unit 1:	Google Drive Word Processing, Spreadsheets, & Presentations	Month:	4 weeks
Unit 2:	Google Sites/Web Page Design	Month:	4 weeks
Unit 3:	Google Forms	Month:	4 weeks
Unit 4:	Google Maps/Cloud Computing	Month:	4 weeks
BOE Approval Date:		August 26, 2014	

**Pine Hill Public Schools
Curriculum**

Unit Title: Google Drive Word Processing, Spreadsheets, & Presentations		Unit #: 1
Course or Grade Level: Google Drive and Cloud Computing		Length of Time: 4 weeks
Pacing	First 4 weeks	
Essential Questions	<ul style="list-style-type: none"> • What is a spreadsheet? • Why would one chose to use a spreadsheet over another application? • What is collaborative learning? • How do you work with another person or group? 	
Content	<ul style="list-style-type: none"> • Collaborative learning and teamwork • Google Spreadsheets • Google Documents • Google Presentation 	
Skills	<ul style="list-style-type: none"> • Learn the different applications for a spreadsheet document • Learn what a spreadsheet is used for • Learn what collaboration means and how to work on a document at the same time. • Create documents, spreadsheets, and presentations in Google Drive • Download documents, spreadsheets, and presentations from Google Drive into a Microsoft application 	
Assessments	<p>ALL ASSIGNMENTS WILL BE COMPLETED IN GOOGLE DRIVE:</p> <ul style="list-style-type: none"> • Spreadsheet documents <ul style="list-style-type: none"> ○ Sports statistics assignment • Word Processing documents <ul style="list-style-type: none"> ○ Oh the Places We've Gone class newsletter • Presentation documents <ul style="list-style-type: none"> ○ Oh the Places We've Gone presentation <p>CUMULATIVE ASSIGNMENT will be given at the end of the unit.</p>	
Interventions / differentiated instruction	<ul style="list-style-type: none"> • Students will be graded on their portion of the assignment and not the whole project. • Students will work in small groups where students of differing abilities and learning styles will be grouped together • Students will be able to work individually • Extended time will be available afterschool or during lunch periods if a student needs it • Shortened assignments may be given • Assignments will be broken into parts • CITW strategies • Visual Demonstrations • Peer Support 	
Inter-disciplinary Connections	<ul style="list-style-type: none"> • Language Arts • Geography/Social Studies • Math skills 	
Lesson resources / Activities	<p>Resources include:</p> <ul style="list-style-type: none"> • http://www.google.com/edu/index.html • http://www.google.com/enterprise/apps/education/resources/index.html • http://www.google.com/enterprise/apps/education/resources/lesson-plans.html • http://www.google.com/edu/teachers/lesson-plan-search.html • https://sites.google.com/site/gwebsearcheducation/lessonplans • Samples • Templates as needed • http://www.google.com/insidesearch/searcheducation/lessons.html#challenges – Google a day challenge to stress the importance of using a search engine. 	

NOTE: Like technology, this course will be dynamic depending on Google updates.

2009 NJCCCS

Standard:9.1 21st Century Life and Careers

Strand(s): A Critical Thinking and Problem Solving

Common Core:

LA.K-12.CCSS.ELA-Literacy.CCRA.W.2
 LA.K-12.CCSS.ELA-Literacy.CCRA.W.4
 LA.K-12.CCSS.ELA-Literacy.CCRA.W.6
 LA.K-12.CCSS.ELA-Literacy.CCRA.W.8
 LA.K-12.CCSS.ELA-Literacy.CCRA.SL1
 LA.K-12.CCSS.ELA-Literacy.CCRA.SL2
 LA.K-12.CCSS.ELA-Literacy.CCRA.SL4

CPI # / CPI(s):

9.1.12.A.1 – Apply critical thinking and problem solving strategies during structured learning experiences.

Standard:9.1 21st Century Life and Careers

Strand(s): C Collaboration, Teamwork, and Leadership

Content Statement(s):

CPI # / CPI(s):

9.1.12.C.5 – Assume a leadership position by guiding the thinking of peers in a direction that leads to successful completion of a challenging task or project.

Standard: 8.1 Technology

Strand(s): A Technology Operations and Concepts

Content Statement(s):

CPI # / CPI(s):

8.1.12.A.1 Construct a spreadsheet, enter data, and use mathematical or logical functions to manipulate data, generate charts and graphs, and interpret the results

21st Century Themes

X	Global Awareness		Financial, Economic, Business, and Entrepreneurial Literacy		Civic Literacy		Health Literacy
---	------------------	--	---	--	----------------	--	-----------------

21st Century Skills

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

**Pine Hill Public Schools
Curriculum**

Unit Title Google Sites/Web Page Design		Unit #: 2
Course or Grade Level: Google Drive and Cloud Computing		Length of Time: 4 weeks
Pacing	Second 4 weeks	
Essential Questions	<ul style="list-style-type: none"> • What makes good web design? • What is a target audience? • What is the purpose of the web site? 	
Content	<ul style="list-style-type: none"> • Collaborative learning and teamwork • Evaluating web sites • Planning a web site • Good Web Site Design • Target audiences 	
Skills	<ul style="list-style-type: none"> • Learn the differences between good web design and bad web design • Learn how to evaluate a web site, ie; is the information correct. • How to plan a web site and its target audience. What is the purpose of this web site? To entertain, to inform. Who will use this web site? Students, adults, children, senior citizens 	
Assessments	<p>ALL ASSIGNMENTS WILL BE COMPLETED IN GOOGLE DRIVE:</p> <ul style="list-style-type: none"> • All research and planning will be done in a Google Drive Word Processing documents • All completed assignments will be done in Google Drive Sites <p>CUMULATIVE ASSIGNMENT will be given at the end of the unit.</p>	
Interventions / differentiated instruction	<ul style="list-style-type: none"> • Students will be graded on their portion of the assignment and not the whole project. • Students will work in small groups where students of differing abilities and learning styles will be grouped together • Students will be able to work individually • Extended time will be available afterschool or during lunch periods if a student needs it • Shortened assignments may be given • Assignments will be broken into parts • CITW strategies • Visual Demonstrations • Peer Support 	
Inter-disciplinary Connections	<ul style="list-style-type: none"> • Language Arts • Social Studies 	
Lesson resources / Activities	<p>Resources include:</p> <ul style="list-style-type: none"> • http://www.google.com/edu/index.html • http://www.google.com/enterprise/apps/education/resources/index.html • http://www.google.com/enterprise/apps/education/resources/lesson-plans.html • http://www.google.com/edu/teachers/lesson-plan-search.html • https://sites.google.com/site/gwebsearcheducation/lessonplans • Samples • Templates as needed • http://www.google.com/insidesearch/searcheducation/lessons.html#challenges – Google a day challenge to stress the importance of using a search engine. <p>NOTE: Like technology, this course will be dynamic depending on Google updates.</p>	

2009 NJCCCS

Standard:

**9.1 21st Century Life and Careers
8.1 Technology**

Strand(s):

Strand A Critical Thinking and Problem Solving
Strand C Collaboration, Teamwork, and Leadership
Strand E Communication and Media
Strand A Technology Operations and Concepts

Common Core:

LA.K-12.CCSS.ELA-Literacy.CCRA.W.2
LA.K-12.CCSS.ELA-Literacy.CCRA.W.4
LA.K-12.CCSS.ELA-Literacy.CCRA.W.6
LA.K-12.CCSS.ELA-Literacy.CCRA.W.8
LA.K-12.CCSS.ELA-Literacy.CCRA.SL1
LA.K-12.CCSS.ELA-Literacy.CCRA.SL2
LA.K-12.CCSS.ELA-Literacy.CCRA.SL4

CPI # / CPI(s):

9.1.12.A.1 – Apply critical thinking and problem solving strategies during structured learning experiences
9.1.12.C.5 – Assume a leadership position by guiding the thinking of peers in a direction that leads to successful completion of a challenging task or project.
9.1.12.E.1 – Create messages for different purposes and audiences with sensitivity to cultural, gender, and age diversity, using various digital media.
8.1.12.A.2 – Produce and edit a multi-page document for a commercial or professional audience using desktop publishing and/or graphic software.

21st Century Themes

	Global Awareness	X	Financial, Economic, Business, and Entrepreneurial Literacy		Civic Literacy		Health Literacy
--	------------------	---	---	--	----------------	--	-----------------

21st Century Skills

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

**Pine Hill Public Schools
Curriculum**

Unit Title Google Forms		Unit #: 3
Course or Grade Level: Google Drive and Cloud Computing		Length of Time: 4 weeks
Pacing	Third 4 weeks	
Essential Questions	<ul style="list-style-type: none"> • What is a survey? • Who/What is a target audience? • What is the purpose of a survey? • What is the importance of interpreting survey results? 	
Content	<ul style="list-style-type: none"> • Collaborative learning and teamwork • Creating surveys • Distribute a surveys • Analyze the results of a survey • Make recommendations for change • Creating charts of the survey results in Google Spreadsheet/Excel 	
Skills	<ul style="list-style-type: none"> • Learn that surveys are data collection tools. • Surveys are conducted to help decide what needs changing, where money should be spent, what products to purchase, or what problems might exist. • Gathering information is an important way to help people make decision about a topic of interest. • Identify problems that can be fixed. • Help to write good survey questions • Create surveys • How to read the results? question columns/charts • How to make recommendations using the results? 	
Assessments	<p>ALL ASSIGNMENTS WILL BE COMPLETED IN GOOGLE DRIVE:</p> <ul style="list-style-type: none"> • All research and planning will be done in a Google Drive Word Processing documents and Google Spreadsheets • Survey results will completed in Google Spreadsheet/Excel • All completed assignments will be done in Google Forms <p>CUMULATIVE ASSIGNMENT will be given at the end of the unit.</p>	
Interventions / differentiated instruction	<ul style="list-style-type: none"> • Students will be graded on their portion of the assignment and not the whole project. • Students will work in small groups where students of differing abilities and learning styles will be grouped together • Students will be able to work individually • Extended time will be available afterschool or during lunch periods if a student needs it • Shortened assignments may be given • Assignments will be broken into parts • CITW strategies • Visual Demonstrations • Peer Support 	
Inter-disciplinary Connections	<ul style="list-style-type: none"> • Language Arts 	
Lesson resources / Activities	<ul style="list-style-type: none"> • Resources include: • http://www.google.com/edu/index.html • http://www.google.com/enterprise/apps/education/resources/index.html • http://www.google.com/enterprise/apps/education/resources/lesson-plans.html • http://www.google.com/edu/teachers/lesson-plan-search.html • https://sites.google.com/site/gwebsearcheducation/lessonplans 	

<ul style="list-style-type: none"> • Samples • Templates as needed • http://www.google.com/insidesearch/searcheducation/lessons.html#challenges – Google a day challenge to stress the importance of using a search engine. • https://sites.google.com/a/share.brevardschools.org/integratorsgoogleresources/lessonplanideas • NOTE: Like technology, this course will be dynamic depending on Google updates.

2009 NJCCCS

Standard:
9.1 21st Century Life and Careers
8.1 Technology

Strand(s):
Strand A Critical Thinking and Problem Solving
Strand C Collaboration, Teamwork, and Leadership
Strand A Technology Operations and Concepts

<p>Common Core: LA.K-12.CCSS.ELA-Literacy.CCRA.W.1 LA.K-12.CCSS.ELA-Literacy.CCRA.W.4 LA.K-12.CCSS.ELA-Literacy.CCRA.W.6 LA.K-12.CCSS.ELA-Literacy.CCRA.W.8 LA.K-12.CCSS.ELA-Literacy.CCRA.SL1 LA.K-12.CCSS.ELA-Literacy.CCRA.SL2 LA.K-12.CCSS.ELA-Literacy.CCRA.SL4</p>	<p>CPI # / CPI(s): 9.1.12.A.1 – Apply critical thinking and problem solving strategies during structured learning experiences 9.1.12.C.5 – Assume a leadership position by guiding the thinking of peers in a direction that leads to successful completion of a challenging task or project. 8.1.12.A.1 – Construct a spreadsheet, enter data, and use mathematical or logical functions to manipulate data, generate charts and graphs, and interpret the results.</p>
---	---

21st Century Themes

X	Global Awareness		Financial, Economic, Business, and Entrepreneurial Literacy		Civic Literacy		Health Literacy
---	------------------	--	---	--	----------------	--	-----------------

21st Century Skills

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

**Pine Hill Public Schools
Curriculum**

Unit Title Google Maps/Cloud Computing		Unit #: 4
Course or Grade Level: Google Drive and Cloud Computing		Length of Time: 4 weeks
Pacing	Final 4 weeks	
Essential Questions	<ul style="list-style-type: none"> • What is Google Maps? • How can I use them? • How can I customize a Google Map? • Why would I use customized maps? 	
Content	<ul style="list-style-type: none"> • Collaborative learning and teamwork • Customizing maps • Inserting media/graphics/text into customized maps 	
Skills	<ul style="list-style-type: none"> • Learn how to create routes (lines) from point A to point B • Learn how to create shapes on a Map • Learn how to add photo and video balloons 	
Assessments	<p>ALL ASSIGNMENTS WILL BE COMPLETED IN GOOGLE DRIVE:</p> <ul style="list-style-type: none"> • All research and planning will be done in a Google Drive Word Processing documents • All completed assignments will be done in Google Maps <p>CUMULATIVE ASSIGNMENT will be given at the end of the unit.</p>	
Interventions / differentiated instruction	<ul style="list-style-type: none"> • Students will be graded on their portion of the assignment and not the whole project. • Students will work in small groups where students of differing abilities and learning styles will be grouped together • Students will be able to work individually • Extended time will be available afterschool or during lunch periods if a student needs it • Shortened assignments may be given • Assignments will be broken into parts • CITW strategies • Visual Demonstrations • Peer Support 	
Inter-disciplinary Connections	<ul style="list-style-type: none"> • Language Arts • Social Studies • Geography 	
Lesson resources / Activities	<ul style="list-style-type: none"> • Resources include: • http://www.google.com/edu/index.html • http://www.google.com/enterprise/apps/education/resources/index.html • http://www.google.com/enterprise/apps/education/resources/lesson-plans.html • http://www.google.com/edu/teachers/lesson-plan-search.html • https://sites.google.com/site/gwebsearcheducation/lessonplans • Samples • Templates as needed • http://www.google.com/insidesearch/searcheducation/lessons.html#challenges – Google a day challenge to stress the importance of using a search engine. • https://sites.google.com/a/share.brevardschools.org/integratorsgoogleresources/lessonplanideas • http://www.google.com/earth/outreach/tutorials/all.html#maps <p>NOTE: Like technology, this course will be dynamic depending on Google updates.</p>	

2009 NJCCCS

Standard:

9.1 21st Century Life and Careers

8.1 Technology

Strand(s):**Strand A Critical Thinking and Problem Solving****Strand C Collaboration, Teamwork, and Leadership****Strand A Technology Operations and Concepts****Common Core:****LA.K-12.CCSS.ELA-Literacy.CCRA.W.2****LA.K-12.CCSS.ELA-Literacy.CCRA.W.3****LA.K-12.CCSS.ELA-Literacy.CCRA.W.4****LA.K-12.CCSS.ELA-Literacy.CCRA.W.6****LA.K-12.CCSS.ELA-Literacy.CCRA.W.8****LA.K-12.CCSS.ELA-Literacy.CCRA.SL1****LA.K-12.CCSS.ELA-Literacy.CCRA.SL2****LA.K-12.CCSS.ELA-Literacy.CCRA.SL4****CPI # / CPI(s):****9.1.12.A.1 – Apply critical thinking and problem solving strategies during structured learning experiences****9.1.12.C.5 – Assume a leadership position by guiding the thinking of peers in a direction that leads to successful completion of a challenging task or project.****8.1.12.A.2 – Produce and edit a multi-page document for commercial or professional audience using desktop publishing and/or graphic software.****21st Century Themes**

X	Global Awareness		Financial, Economic, Business, and Entrepreneurial Literacy	X	Civic Literacy		Health Literacy
---	------------------	--	---	---	----------------	--	-----------------

21st Century Skills

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