

<b>Marking Period: 3</b>	<b>Unit Title: Software Entrepreneurial Process</b>	<b>Recommended Instruction Days: 40</b>
<b>Standard-New Jersey Student Learning Standards:</b> Standard 8.1 Computer Science Standard 8.2 Design Thinking		
<b>Strand:</b> N.J.A.C. 6A:8-2. N.J.A.C.6A:8-3.1(c). N.J.A.C.6A:8-1.1(a)3). N.J.A.C.18A:26-2.26 N.J.A.C.18A:7C-1.1 N.J.A.C.18A:7C-2.1 9.4.2.CT.1: 9.4.2.CT.2: 9.4.2.CT.3: 9.4.2.DC.1 9.4.2.DC.2 9.4.2.DC.3 9.4.2.DC.4 9.4.2.DC.5 9.4.2.DC.6 9.4.2.DC.7		
LGBT and Disabilities Law: <i>N.J.S.A. 18A:35-4.35</i>  Alan Turning:		
<b>Social and Emotional Learning:</b> <i>Competencies</i>	<b>Social and Emotional Learning:</b> <i>Sub-Competencies</i>	
Self-Awareness  Social Awareness  Self-Management	<ul style="list-style-type: none"> <li>● Recognizing the importance of self-confidence in handling daily tasks and challenges.</li> <li>● Demonstrate an awareness of the expectations for social interactions in a variety of ways.</li> </ul>	

<p>Relationship Skills</p> <p>Responsible Decision-Making</p>	<ul style="list-style-type: none"> <li>● Demonstrate an understanding of the need for mutual respect when viewpoints differ.</li> <li>● Recognize the skills needed to establish and achieve personal and educational goals.</li> <li>● Utilize positive communication and social skills to interact effectively with others.</li> <li>● Develop, implement, and model effective problem solving and critical thinking skills.</li> </ul>
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**Recommended Activities, Investigations, Interdisciplinary Connections, and/or Student Experiences to Explore NJSLs-CLKS within Unit**

Essential Questions	Progress Indicators	Activity Description
<p>What are control statements?</p> <p>What are If statements?</p> <p>What are while statements?</p> <p>What are for statements?</p> <p>What is the difference between while and for statements?</p> <p>When to use for and while statements?</p> <p>What are switch statements?</p>	<ul style="list-style-type: none"> <li>● Tests</li> <li>● Quizzes</li> <li>● Practice problems for homework</li> <li>● Worksheets</li> <li>● Projects</li> <li>● programs</li> </ul>	<ul style="list-style-type: none"> <li>● Programs using if statements</li> <li>● Programs using while statements</li> <li>● Programs using for statements</li> <li>● Programs using loops and if statements</li> <li>● Programs using switch statements</li> <li>● Play a text based game</li> <li>● Text based game project (2 to 3 weeks)</li> </ul> <p><b>Spot Light On:</b> <i>Acknowledge every student's comment or response, even if it's incorrect.</i></p>

<b>Computer Science Practices</b>			
<ol style="list-style-type: none"> <li>1. Make sense of problems and persevere in solving them.</li> <li>2. Reason abstractly and quantitatively.</li> <li>3. Construct viable arguments and critique the reasoning of others.</li> <li>4. Model with mathematics.</li> <li>5. Use appropriate tools strategically.</li> <li>6. Attend to precision.</li> <li>7. Look for and make use of structure.</li> <li>8. Look for and express regularity in repeated reasoning.</li> <li>9. There is always a better solution to a problem.</li> <li>10. Bugs take perseverance.</li> </ol>			
<b>Assessments (Formative)</b> <i>To show evidence of meeting the standard/s, students will successfully engage within:</i>		<b>Assessments (Summative)</b> <i>To show evidence of meeting the standard/s, students will successfully complete:</i>	
<u><b>Formative Assessment:</b></u> <ul style="list-style-type: none"> <li>● Entry and Exit Slips</li> <li>● Quizzes</li> <li>● Self Assessments</li> <li>● Focus Packets</li> <li>● research reports</li> </ul>		<u><b>Benchmarks:</b></u> <ul style="list-style-type: none"> <li>● Chapter Tests</li> <li>● Projects</li> </ul> <u><b>Summative Assessments:</b></u> <ul style="list-style-type: none"> <li>● District assessments</li> <li>● Standardized test</li> </ul>	
<b>Differentiated Student Access to Content: Teaching and Learning Resources/Materials</b>			
<b>Core Resources</b>	<b>Alternate Core Resources <i>IEP/504/At-Risk/ESL</i></b>	<b>ELL Core Resources</b>	<b>Gifted &amp; Talented Core Resources</b>

<p><b>Codechef</b> <b>Ideone</b> <b>Repl it</b> <b>Khan academy</b> <b>Gipod</b> <b>Tutorial spoon</b> <b>Coding ground</b> <b>Codes and box</b></p>	<p>Reteaching Skill building workbook Online Tutorials Leveled practice worksheets</p>	<p>Dictionary for native language Video tutorial in native language Success for English Learners worksheets Leveled Strategies for English Learners Linguistic Support</p>	<p>Higher level Projects Art of Problem Solving Leveled assessments</p>
<b>Supplemental Resources</b>			
<ul style="list-style-type: none"> <li>• Technology: Chromebooks, Graphing Calculators, Smartboards, Computers, VR, 3d Printer, Game Systems</li> <li>• Other: Zoom and Google Meets, Schoology, Google Classroom</li> </ul>			
<b>Differentiated Student Access to Content: Recommended <i>Strategies &amp; Techniques</i></b>			
<b>Core Resources</b>	<b>Alternate Core Resources <i>IEP/504/At-Risk/ESL</i></b>	<b>ELL Core Resources</b>	<b>Gifted &amp; Talented Core Resources</b>
<p>Deliver instruction utilizing varied learning styles including audio, visual, and tactile/kinesthetic, provide individual instruction as needed, modify assessments and/or rubrics, repeat</p>	<p>Utilize a multi-sensory (VAKT) approach during instruction, provide alternate presentations of skills by varying the method (repetition, simple explanations, additional examples, modeling, etc.), modify test content and/or format, allow students to retake test for additional credit, provide additional times and preferential seating as needed, review, restate and repeat</p>	<p>Extend time requirements, preferred seating, positive reinforcement, check often for understanding/review, oral/visual directions/prompts when necessary, supplemental materials including use of an online bilingual dictionary, and modified assessment and/or rubric.</p>	<p>Create an enhanced set of introductory activities, integrate active teaching/learning opportunities, incorporate authentic components, propose interest-based extension activities, and connect student to related</p>

Content Area: Mathematics (NJSLM-M) Grades K-12  
Grade: 9-12

Established 14-15  
Revised 19-20  
Revised 20-21  
Revised 21-22  
Revised August 2023

	directions, provide study guides, and/or break assignments into segments of shorter tasks.		
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New Jersey Legislative Statutes and Administrative Code  
(place an "X" before each law/statute if/when present within the curriculum map)

Amistad Law: <i>N.J.S.A. 18A 52:16A-88</i>	Holocaust Law: <i>N.J.S.A. 18A:35-28</i>	<b>X</b>	LGBT and Disabilities Law: <i>N.J.S.A. 18A:35-4.35</i>	<b>X</b>	Diversity & Inclusion: <i>N.J.S.A. 18A:35-4.36a</i>	Standards in Action: <i>Climate Change</i>
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