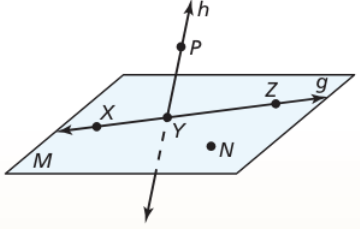
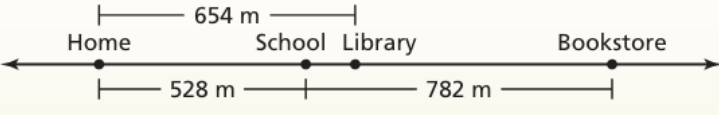


Updated August 2024

Marking Period	Unit Title	Recommended Instructional Days
1	Basics of Geometry	11-14 Days
<b>Domain: Geometry</b>		
<p><i>NJSLS Strand:</i></p> <p><b>Key:</b></p> <ul style="list-style-type: none"> <li><span style="color: green;">■</span> Major Cluster</li> <li><span style="color: blue;">□</span> Supporting Cluster</li> <li><span style="color: yellow;">○</span> Additional Cluster</li> </ul> <p><span style="color: blue;">□</span> <i>G.CO.A.1: Know precise definitions of angle, circle, perpendicular line, parallel line, and line segment, based on the undefined notions of point, line, distance along a line, and distance around a circular arc.</i></p> <p><span style="color: green;">■</span> <i>G.CO.C.9: Prove theorems about lines and angles. Theorems include: vertical angles are congruent; when a transversal crosses parallel lines, alternate interior angles are congruent and corresponding angles are congruent; points on a perpendicular bisector of a line segment are exactly those equidistant from the segment's endpoints.</i></p> <p><span style="color: green;">■</span> <i>G.CO.C.10: Prove theorems about triangles. Theorems include: measures of interior angles of a</i></p>	<p><i>Progress Indicator:</i></p> <p><i>Tests • Quizzes • Practice problems for homework • Online textbook • Worksheets • Leveled assessments</i></p>	<p style="text-align: center;"><b>Recommended Activities, Investigations, Interdisciplinary Connections, and/or Student Experiences to Explore NJSLS-CLKS within Unit</b></p> <p><b><u>Essential Questions:</u></b></p> <ol style="list-style-type: none"> <li>1. How many lines are drawn through one point? How many lines can be drawn through 2 points?</li> <li>2. What does the verb postulate mean? What does the noun postulate mean?</li> <li>3. What do midpoints and segments bisectors have in common? How are they different?</li> <li>4. Can a segment have more than one midpoint? More than one bisector?</li> <li>5. Can you sketch a rectangle that has an area of 8 inches?</li> </ol> <p><b><u>Activity Description:</u></b></p> <ul style="list-style-type: none"> <li>• Points, Lines, and Planes</li> <li>• Measuring and constructing segments</li> <li>• Using midpoint and distance formula</li> <li>• Measuring and constructing angles</li> <li>• Describing pairs of angles</li> </ul> <p><b><u>Interdisciplinary Connections:</u></b></p> <p><b>TOPIC 1 PROJECT</b> Career Readiness, life Literacies and Key Skills <b>Content: Technology; Design a tablet</b> The tablet market is growing quickly. Each quarter, more than 38 million tablets are shipped around the world. By 2019, yearly shipping is expected to surpass 189 million. In this project, you'll design a new tablet using the golden ratio. NJSLS#:G.CO.A.1, G.CO.D.8, G.CO.D.12, A.RE.B.4 (Next Generation Science Standards: HS-ETS1-1, HS-ETS1-2)</p>

Marking Period	Unit Title	Recommended Instructional Days
1	Basics of Geometry	11-14 Days
<p><i>triangle sum to 180 degrees; base angles of isosceles triangles are congruent; the segment joining midpoints of two sides of a triangle is parallel to the third side and half the length; the medians of a triangle meet at a point.</i></p> <p><b>G.CO.C.11:</b> Prove theorems about parallelograms. Theorems include: Opposite sides are congruent, opposite angles are congruent, the diagonals of a parallelogram bisect each other and conversely, rectangles are parallelograms with congruent diagonals.</p> <p><b>G.CO.D.12:</b> Make formal geometric constructions with a variety of tools and methods (compass and straightedge, string, reflective devices, paper folding, dynamic geometric software, etc.). Copying a segment; copying an angle; bisecting a segment; bisecting an angle; constructing perpendicular lines, including the perpendicular bisector of a line segment; and constructing a line parallel to a given line through a point not on the line.</p> <p><b>G.GPE.B.6 (+):</b> Find the point on a directed line segment between</p>		<p><b>Spot Light On:</b> <b>LBGT and Disabilities Law: N.J.S.A 18A:34-4.35</b></p> <ul style="list-style-type: none"> <li>Sally Ride: First American woman in space.</li> </ul> <p><b>Example Tasks:</b></p> <p><b>Task 1:</b></p> <ol style="list-style-type: none"> <li>Give another name for plane <math>M</math>.</li> <li>Name a line in plane <math>M</math>.</li> <li>Name a line intersecting plane <math>M</math>.</li> <li>Name two rays.</li> <li>Name a pair of opposite rays.</li> <li>Name a point not in plane <math>M</math>.</li> <li>Is it possible for the intersection of two planes to be a segment? a line? a ray? Sketch the possible situations.</li> </ol>  <p><b>Task 2:</b> You pass by school and the library on a walk from home to the bookstore, as shown below. How far from school is the library? How long does it take you to walk from home to the bookstore at an average speed of 68 meters per minute?</p>  <p><b>Task 3:</b></p>

Marking Period	Unit Title	Recommended Instructional Days
1	Basics of Geometry	11-14 Days
<p><i>two given points that partitions the segment in a given ratio.</i></p>		<p>The coordinate plane shows distances (in feet) on a baseball infield. The pitcher's plate is about 3 feet closer to home plate than the midpoint between home plate and second base is to home plate. Estimate the distance between home plate and the pitcher's plate. Explain how you found your answer.</p>
<p><b>Mathematics Practices</b></p>		
<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 reason of others.</li> </ol>		

Marking Period	Unit Title	Recommended Instructional Days
<b>1</b>	<b>Basics of Geometry</b>	<b>11-14 Days</b>
<ol style="list-style-type: none"> <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> </ol>		
<b>Social and Emotional Learning: <i>Competencies</i></b>	<b>Social and Emotional Learning: <i>Sub-Competencies</i></b>	
<p style="text-align: center;">Self- awareness</p> <p style="text-align: center;">Social Awareness</p> <p style="text-align: center;">Self- Management</p> <p style="text-align: center;">Relationship Skills</p> <p style="text-align: center;">Responsible Decision-Making</p>	<p>Recognizing the importance of self-confidence in handling daily tasks and challenges.</p> <p>Demonstrate an awareness of the expectations for social interactions in a variety of ways.</p> <p>Demonstrate an understanding of the need for mutual respect when viewpoints differ.</p> <p>Recognize the skills needed to establish and achieve personal and educational goals.</p> <p>Utilize positive communication and social skills to interact effectively with others.</p> <p>Develop, implement, and model effective problem solving and critical thinking skills.</p>	
<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>

Marking Period	Unit Title		Recommended Instructional Days
1	Basics of Geometry		11-14 Days
<b>Formative Assessments:</b> <ul style="list-style-type: none"> <li>• Entry and Exit Slips</li> <li>• Quizzes</li> <li>• Self Assessments</li> </ul>		<b>Benchmarks:</b> <ul style="list-style-type: none"> <li>• Chapter Tests</li> <li>• Projects</li> <li>• LinkIT</li> </ul> <b>Summative Assessments:</b> <ul style="list-style-type: none"> <li>• District Assessments</li> <li>• Midterms</li> <li>• Standardized Tests</li> </ul>	
<b>Differentiated Student Access to Content: Teaching and Learning Resources/Materials</b>			
Core Resources	Alternate Core Resources <i>IEP/504/At-Risk/ESL</i>	ELL Core Resources	Gifted & Talented Core Resources
<ul style="list-style-type: none"> <li>• Big Ideas</li> <li>• Achieve the core</li> <li>• Khan Academy</li> <li>• Desmos</li> <li>• GeoGebra</li> </ul>	<ul style="list-style-type: none"> <li>• Skill building worksheets</li> <li>• Math Manipulatives</li> </ul>	<ul style="list-style-type: none"> <li>• Dictionary for native languages</li> <li>• Videos in their native language.</li> </ul>	<ul style="list-style-type: none"> <li>• Leveled Assessments</li> <li>• Enrichment worksheets</li> </ul>
<b>Supplemental Resources</b>			
<b>Technology:</b> <ul style="list-style-type: none"> <li>• Chromebooks, Graphing Calculators, Online math manipulatives</li> </ul> <b>Other:</b> <ul style="list-style-type: none"> <li>• Zoom and Google Meets, Schoology, Interactive Textbooks, Private Tutoring</li> </ul>			
<b>Differentiated Student Access to Content: Recommended Strategies &amp; Techniques</b>			
Core Resources	Alternate Core Resources <i>IEP/504/At-Risk/ESL</i>	ELL Core Resources	Gifted & Talented Core

Marking Period	Unit Title		Recommended Instructional Days
1	Basics of Geometry		11-14 Days
<ul style="list-style-type: none"> <li>Deliver instruction utilizing varied learning styles including audio, visual, and tactile/kinesthetic, provide individual instruction as needed, modify assessments and/or rubrics, repeat</li> </ul>	<ul style="list-style-type: none"> <li>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 directions, provide study guides, and/or break assignments into segments of shorter tasks.</li> </ul>	<ul style="list-style-type: none"> <li>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.</li> </ul>	<ul style="list-style-type: none"> <li>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</li> </ul>

<p>NJSLs CAREER READINESS, LIFE LITERACIES &amp; KEY SKILLS</p>	<p><b>Disciplinary Concept: Creativity and Innovation</b></p>	
	<p><i>Core Ideas:</i></p>	<p>With a growth mindset, failure is an important part of success</p>
	<p><i>Performance Expectation/s:</i></p>	<p>9.4.12.CI.1: Demonstrate the ability to reflect, analyze, and use creative skills and ideas (e.g., 1.1.12prof.CR3a).</p>
	<p><b>Career Readiness, Life Literacies, &amp; Key Skills Practices</b></p>	
	<p>Act as a responsible and contributing community member and employee. Attend to financial well-being. Consider the environmental, social and economic impacts of decisions. Demonstrate creativity and innovation. Utilize critical thinking to make sense of problems and persevere in solving them.</p>	

	<p><b>Model integrity, ethical leadership and effective management.</b>  <b>Plan education and career paths aligned to personal goals.</b>  <b>Use technology to enhance productivity, increase collaboration and communicate effectively.</b>  <b>Work productively in teams while using cultural/global competence.</b></p>
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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>	X	LGBT and Disabilities Law: <i>N.J.S.A. 18A:35-4.35</i>		Diversity & Inclusion: <i>N.J.S.A. 18A:35-4.36a</i>	Standards in Action: <i>Climate Change</i>