Updated Nov. 2021

Marking Period	Unit Title		Recommended Instructional Days	
2	Triangle Congruence		18-20	
Domain:NJSLS Strand: G.CO.B.6: Use geometric descriptions of rigid motions to transform figures and to predict the effect of a given rigid motion on a given figure; given two figures, use the definition of congruence in terms of rigid motions to decide if they are congruent.Progress Ind Tests • Quizz 	icator: zes • Practice problems k • Online textbook • • IXL • Leveled	Recommended Activ Interdisciplinary Conne Experiences to Explore N Essential Questions: 1. How are the side lengths a isosceles triangles and equ 2. How are SAS and SSS used congruent? 3. How are ASA and AAS used congruent? 4. What minimum criteria ar triangles are congruent? 5. Which theorems can be us triangles are congruent? 4. Isosceles and Equilateral T Proving and Applying the S Proving and Applying the S Congruence in Right Trian 6. Congruence in Overlapping	ities, Investigations, ections, and/or Student JSLS-CLKS within Unit nd angle measures related in nilateral triangles? to show that two triangles are l to show that two triangles are e needed to show that right ed to prove that two overlapping Griangles SAS and SSS Congruence Criteria ASA and AAS Congruence Criteria gles g Triangles	



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prove that $\triangle GHI \cong \triangle JHI$? reasons.	 In the figure shown, how can you prove Justify each step using the given reason Given: H is the midpoint of G
G H J	Prove: $\triangle GHI \cong \triangle JHI$
SSS Given	Definition of midpoint
Given	Reflexive Property of Congruence
Reason	Statement
1	1. <i>H</i> is the midpoint of \overline{GJ} . 1.
2	2. $\overline{GH} \cong \overline{JH}$ 2.
3	3. <i>H</i> I ≅ <i>H</i> I 3.
4	4. $\overline{GI} \cong \overline{JI}$ 4.
5	5. $\triangle GHI \cong \triangle JHI$ 5.
Ipoint, 3. Reflexive Property of Congruence, 4. Given, 5. SSS	Answer: 1. Given, 2. Definition of midpoint,
	Task 3:
anations t. 5 in A 4 in C E 5 in D	Seth and Jae wrote the following explanation of why the two triangles are congruent.
Jae	Seth
The lengths of \overline{BC} and \overline{EF} are 3 in., since these are 3-4-5 right triangles. There are three pairs of congruent sides, $\overline{AB} \equiv \overline{DE}$, $\overline{AC} \equiv \overline{DF}$, and	There are two pairs of congruent sides, $\overline{AB} \cong \overline{DE}$ and $\overline{AC} \cong \overline{DF}$, and a pair of congruent right angles, $\angle C \cong \angle F$. So $\triangle ABC \cong \triangle DEF$ by SSA.
$\overline{BC} \cong \overline{EF}$. So $\triangle ABC \cong \triangle DEF$ by SSS.	
$\overline{BC} \cong \overline{EF}$. So $\triangle ABC \cong \triangle DEF$ by SSS.	A De unu thick either student is some 12 for
$\overline{BC} \cong \overline{EF}$. So $\triangle ABC \cong \triangle DEF$ by SSS.	A. Do you think either student is correct? Exp

		 Sample Answers: A. Although Seth's conclusion is correct, he used invalid criteria to show that triangles are congruent. Jae's conclusion is correct and uses valid justifications. B. Any time you are given two right triangles with pairs of congruent sides, you can find the lengths of the third sides using the Pythagorean Theorem and show that the triangles are congruent by SSS.
		Interdisciplinary Connections: Topic 4 Project, enVision STEM: Design a Bridge. Textbook page 148 and online Career Readiness, Life Literacies and Key Skills Content: Engineering. NJSLS#: G.MG.A.1, G.MG.A.3 (Next Generation Science Standards ETS1-2, ETS1-4) Spot Light On: Daniel Tamment - English essayist, novelist, poet, translator, and savant. Tamment can speak 11 languages, perform a multitude of mathematics calculations in his head, and can recite the number pi to 22,514 places.
Mathematics Practices		
 Make sense of problems and persevere in solving them. Reason abstractly and quantitatively. Construct viable arguments and critique the reason of others. Model with mathematics. Use appropriate tools strategically. Attend to precision. Look for and make use of structure. Look for and express regularity in repeated reasoning. 		
Social and Emotional Learning: <i>Competencies</i>	Social and Emotional Learning: Sub-Competencies	

Self- awareness	Recognizing the importance of		
	self-confidence in handling daily tasks		
Social Awareness	and challenges.		
	Demonstrate an awareness of the		
Self- Management	expectations for social interactions in a		
	variety of ways.		
Relationship Skills	Demonstrate an understanding of the		
	need for mutual respect when		
Responsible Decision-Making	viewpoints differ.		
	Recognize the skills needed to establish		
	and achieve personal and educational		
	goals.		
	Utilize positive communication and		
	social skills to interact effectively with		
	others.		
	Develop, implement, and model		
	effective problem solving and critical		
	thinking skills.	, L	
Assessme	nts (Formative)	Assessmen	ts (Summative)
To show evidence of meeting the	e standard/s, students will successfully	To show evidence of meeting the	standard/s, students will successfully
enga	ge within:	COL	mplete:
ormative Assessments:		Benchmarks:	
• Entry and Exit Slips		Chapter Tests	
• Quizzes		Projects	
• Self Assessments			
		Summative Assessments:	
		District Assessments	
		• Midterms	
		Standardized Tests	
	Differentiated Stude	nt Access to Content:	
	Teaching and Learnin	ng Resources/Materials	
Core	Alternate	ELL	Gifted & Talented
Resources	Core Resources	Core Resources	Core Resources
	IEP/504/At-Risk/ESL		
• Textbooks websites	Skill building worksheets	• Dictionary for native	Leveled Assessments
• Achieve the core	Math Manipulatives	languages	Enrichment worksheets
 Khan Academy 		 Videos in their native 	

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

Dev.	Date:
	2021

•	Desmos IXL				language.				
	Supplemental Resources								
Techno • Other: •	 Chromebooks, Graphing Calculators, Online math manipulatives Chromebooks, Graphing Calculators, Online math manipulatives Dther: Zoom and Google Meets, Google Classroom, Interactive Textbooks, Private Tutoring Differentiated Student Access to Content: Decommonded Strateging & Techniques 								
	Core Resources		Alternate Core Resources IEP/504/At-Risk/ESL		ELL Core Resources	Gifted & Talented Core			
• Deliver instruction utilizing varied learning styles including audio, visual, and tactile/kinesthetic, provide individual instruction as needed, modify assessments and/or rubrics, repeat		ng e ts	 <u>IEP/S04/At-Risk/ESL</u> 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. 		• 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.		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		
	Disciplinary Concept: Creativity and Innovation								
NJSLS	CAREER READINESS,	Cor	ore Ideas:		With a growth mindset, failure is an important part of success				

LIFE LITERACIES & KEY SKILLS	Performance Expectation/s:	9.4.12.CI.1: Demonstrate the ability to reflect, analyze, and use creative skills and ideas (e.g., 1.1.12prof.CR3a).				
	Career Readiness, Life Literacies, & Key Skills Practices					
	Act as a responsible and contributing community member and employee.					
	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.					
	Model integrity, ethical leadership and effective management.					
	Plan education and career paths aligned to personal goals.					
	Use technology to enhance productivity, increase collaboration and communicate effectively.					
	Work productively in teams while using cultural/global competence.					

	New Jersey Legislative Statutes and Administrative Code (place an "X" before each law/statute if/when present within the curriculum map)								
Amistad Law: N.J.S.A. 18A 52:16A-88Holocaust Law: N.J.S.A. 18A:35-28XLGBT and Disabilities 								Standards in Action: <i>Climate Change</i>	