

Central R-III Curriculum Form

Grade:	Subject/Unit of Instruction: Unit 4: Congruent Triangles	
Pacing: 12 Class Periods	Priority Standard: G.CO.B.6;Develop the definition of congruence in terms of rigid motions. G.CO.B.7;Develop the criteria for triangle congruence from the definition of congruence in terms of rigid motions. G.CO.C.8;Prove theorems about lines and angles. G.CO.C.10;Prove theorems about polygons. G.MG.A.3;Apply geometric methods to solve design mathematical modeling problems. Supporting Standards:(MLS # only) G.CO.A.1;Define angle, circle, perpendicular line, parallel line, line segment and ray based on the undefined notions of point, line, distance along a line and distance around a circular arc. G.CO.C.9;Prove theorems about triangles. G.CO.D.11;Construct geometric figures using various tools and methods. G.SRT.C.5;Understand that side ratios in right triangles define the trigonometric ratios for acute angles.	
Learning Activities: Notes: https://drive.google.com/drive/folders/0B1Pg6s5EIDD2ZIJITFR0MC15eDA?usp=sharing Homework: https://drive.google.com/drive/folders/0B1Pg6s5EIDD2VIBhYm15ZDNhU00?usp=sharing Learning Target 1: To recognize congruent figures (triangles) and their corresponding parts. Success Criteria (I can statement): - Identify given congruent sides and angles (tic marks and arc marks) - Identify vertical angles - know and apply the reflexive property of congruence - identify alternate interior and alternate exterior angles within parallel lines Learning Target 2: To prove two triangles congruent by SSS and SAS Postulates. - formulate and organize a proof process - connect SSS and SAS postulates with triangle congruence Learning Target 3: To prove two triangles congruent using ASA Postulate and AAS Theorem - connect ASA Postulate and AAS Theorem with triangle congruence Learning Target 4: To Use triangle congruence and CPCTC to prove that parts if two triangles are congruent. - recall and connect the acronym CPCTC - recall that CPCTC is only used with knowledge of Congruence - develop a logical proof process Learning Target 5: To prove triangles congruent using the HL Theorem.		Resources: Pearson Geometry Online Textbook Math XL

Prerequisite (Prior Skills Set Needed) : Basic terminology Be able to identify the difference between a side of a triangle and an angle Be able to identify the parts of a right triangle		
Assessment Activities(Formal Assessments): The students will be assessed through Daily Math Review, practice worksheets, Math XL assignments, group projects and quizzes.	Assessments: https://drive.google.com/drive/folders/0B1Pg6s5EIDD2OHpSelBMemRRZ0U?usp=sharing	
Academic Vocabulary: Base Angles of an Isosceles Triangle Congruent Polygons Corollary Hypotenuse Legs of an Isosceles Triangle Legs of a Right Triangle Vertex Angle of an Isosceles Triangle Congruence Corresponding		
Other Resources and Notes: https://edpuzzle.com/media/584572efb4cd883e23722b71 https://edpuzzle.com/media/581a845af4ecc64b0baa46d9 https://edpuzzle.com/media/57f828a749e2352752bee50b https://edpuzzle.com/media/585aa96fe0427d1368bf0ee5		