BRAINERD HIGH SCHOOL
Curriculum Map

Name: Jamie Bassham **Course:** Geometry **Date:** August 2007 - December 2007
Pre-Assessment: Grade Level Placement Test
Mid-Term Assessment: Unit Test, 9-week exam
Final Assessment: EOC Geometry Test

Month	Content	Essential Question(s)	Standards (SPI's)	Literacy Focus	Assessment
Aug	Perimeter, Circumference and Area Volume and Surface Area	What are plane shapes? What is the perimeter of a plane shape? What is the area of a plane shape? What is a formula? How do you use a formula? What is the volume of a 3-d figure? What is the surface area of a 3-d figure?	2.0 Students will recognize, extend, create, and analyze a variety of geometric, spatial, and numerical patterns; solve real-world problems related to algebra and geometry; and use properties of various geometric figures to analyze and solve problems. 3.0 Students will investigate, model, and apply geometric properties and relationships and use indirect reasoning to make conjectures; deductive reasoning to draw conclusions; and both inductive and deductive reasoning to establish the truth of statements. 4.0 Students will apply appropriate units of measurement; develop effective estimation and computation strategies for solving real world problems involving length, area, and volume; and choose appropriate techniques and tools to measure quantities in order to meet specifications for precision, accuracy, and tolerance.	Read charts and graphs Word problems Computer Component	xProject/Presentation xTeacher Observation ☐ Show and Tell xSelf-Assessment xTest/Quiz xOther: Completion of computer units and daily work
Sept	Introduction to angles and triangles Pythagorean Theorem Special Right Triangles	What is an angle? How are angles formed? In any triangle, what does the measure of the three angles always total? How are triangles classified? When do you use the Pythagorean Theorem? What are special right triangles?	2.0 Students will recognize, extend, create, and analyze a variety of geometric, spatial, and numerical patterns; solve real-world problems related to algebra and geometry; and use properties of various geometric figures to 3.0 Students will investigate, model, and apply geometric properties and relationships and use indirect reasoning to make conjectures; deductive reasoning to draw conclusions; and both inductive and deductive reasoning to establish the truth of statements.	Read charts and graphs Word problems Computer Component	xProject/Presentation xTeacher Observation ☐ Show and Tell xSelf-Assessment xTest/Quiz xOther :Completion of computer units and daily work
Oct	Distance, midpoint, and slope of a line segment Parallel and Perpendicular Lines	What is the distance, midpoint, and slope of a line segment? How are angles related when they are formed by parallel lines? What is a geometric	1.0 Students will recognize, order, represent, and graph rational and irrational numbers, including absolute value notation. 2.0 Students will recognize, extend, create, and analyze a variety of geometric, spatial, and numerical patterns; solve real-world problems related to algebra and geometry; and use properties of	Read charts and graphs Word problems Computer Component	xProject/Presentation xTeacher Observation ☐ Show and Tell xSelf-Assessment xTest/Quiz xOther: Completion of computer units and daily work

	Geometric Transformations Similarity & Congruency	transformation? What are similar triangles? What are congruent triangles?	various geometric figures to analyze and solve problems. 3.0 Students will investigate, model, and apply geometric properties and relationships and use indirect reasoning to make conjectures; deductive reasoning to draw conclusions; and both inductive and deductive reasoning to establish the truth of statements. 5.0 The student will investigate, explore, and apply geometric representations to calculate theoretical probability; and will use data from geometric figures to investigate relationships.		
Nov	Quadrilaterals Circles	What is the name of different polygons? What are the properties of a quadrilateral, parallelogram, trapezoid, rectangle, and rhombi? What formulas do you use to find the measure of a central angle or an inscribed angle in a circle? What is a chord of a circle? How do you find the interior and exterior angle measures in a circle?	2.0 Students will recognize, extend, create, and analyze a variety of geometric, spatial, and numerical patterns; solve real-world problems related to algebra and geometry; and use properties of various geometric figures to analyze and solve problems. 3.0 Students will investigate, model, and apply geometric properties and relationships and use indirect reasoning to make conjectures; deductive reasoning to draw conclusions; and both inductive and deductive reasoning to establish the truth of statements.	Read charts and graphs Word problems Computer Component	xProject/Presentation xTeacher Observation ☐ Show and Tell xSelf-Assessment xTest/Quiz xOther: Completion of computer units and daily work
Dec	Right Triangle Trigonometry Review for End of Course Exam Extensions of Area and Volume	What are trigonometric functions and how are they used? What are nets and how can they be used to compute surface area and volume?	1.0 Students will recognize, order, represent, and graph rational and irrational numbers, including absolute value notation. 2.0 Students will recognize, extend, create, and analyze a variety of geometric, spatial, and numerical patterns; solve real-world problems related to algebra and geometry; and use properties of various geometric figures to analyze and solve problems. 3.0 Students will investigate, model, and apply geometric properties and relationships and use indirect reasoning to make conjectures; deductive reasoning to draw conclusions; and both inductive and deductive reasoning to establish the truth of statements. 4.0 Students will apply appropriate units of measurement; develop effective estimation and computation strategies for solving real world problems involving length, area, and volume; and choose appropriate techniques and tools to measure quantities in order to meet specifications for precision, accuracy, and tolerance. 5.0 The student will investigate, explore, and apply geometric representations to calculate theoretical probability; and will use data from geometric figures to investigate relationships.	Read charts and graphs Word problems Computer Component	xProject/Presentation xTeacher Observation ☐ Show and Tell xSelf-Assessment xTest/Quiz xOther: Completion of computer units and daily work