



Portland Public Schools  
Middle Level  
Syllabus Template

Teacher: Bret Gernhart		School: Mt. Tabor Middle School	
Subject: Math	Course Title: Geometry College Preparatory Mathematics		Grade Level(s): 8 <sup>th</sup>
Is high school credit an option for this course? Yes			
Prerequisites: This class is open to students who have successfully passed Algebra 1-2.			
Course description: This course is structured around transformations, relationships between figures, properties of plane figures, measurements of plane figures, measurements of three dimensional shapes, tools for analyzing and measuring shapes, investigating and proving concepts, geometric construction and algebra and probability.			
Schedule of topics/units covered: Shapes and Transformations, Angles and measures, Justification and Similarity, Trigonometry and Probability, Congruent Triangles, Proofs, Circles, Solids and Constructions, and Conics.			
Academic Vocabulary (optional in 2008): Refer to CPM Math Program			
District adopted materials: CPM (College Preparatory Math)			
Supplemental resources: Numerous projects related to material covered.			
Differentiation/ accessibility strategies and support (TAG, ELL, SpEd, other): Projects related to material covered. Templates used, manipulatives, graphic organizers, and make connections to other mathematics.			
Final proficiencies: Pose mathematical questions Make conjectures and test their validity Recognize and represent patterns mathematically Appreciate geometry as a connected, systematic branch of mathematics Critique a logical argument Use algebra to formulate and solve equations Communicate their mathematical understanding effectively and formulate complete.			

Exhibit creativity and perseverance in mathematical problem solving.		
Essential skills to be taught or assessed:		
<input type="checkbox"/>	<input type="checkbox"/>	Read and comprehend
<input type="checkbox"/>	<input type="checkbox"/>	Write clearly and accurately
<input type="checkbox"/>	<input type="checkbox"/>	Listen actively and speak clearly
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Apply mathematics
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Think critically
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Personal management and teamwork
<input type="checkbox"/>	<input type="checkbox"/>	Use technology
<input type="checkbox"/>	<input type="checkbox"/>	Civic and Community Engagement
<input type="checkbox"/>	<input type="checkbox"/>	Global Literacy
Assessment/evaluation/grading policy: Students must demonstrate proficiency on learning objectives through completion of homework, assignments, projects, and scores on exams.		
Behavioral expectations: Students are expected to work individually, small groups, and large groups.		
Safety issues and requirements: none		
Signature of instructor completing this form: Bret Gernhart		
Administrator Approval:		
<p><i>By approving this syllabus the administrator verifies that</i></p> <ol style="list-style-type: none"> <li><i>a. the course code written on this form is accurate and that this code has been correctly placed into eSIS by the school's data clerk.</i></li> <li><i>b. the teacher listed on the syllabus meets the endorsement requirements as set forth by ODE and NCLB.</i></li> <li><i>c. the course meets the requirements of the District required core curriculum including standards.</i></li> <li><i>d. the teacher is using District adopted materials or has been approved to use other resources.</i></li> </ol>		