Geometry A Syllabus & Course	Outline (2 <sup>nd</sup> Trimester, 2018-19)
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Teacher:Peter Wiebe Room 710wiebe_p@4j.lane.eduOffice Hours:• 7:50 - 8:25 Tuesday - Friday, or by appointment	Textbook:CPM Core Connections Geometry, vol 1eBook:http://ebooks.cpm.org•PIN: 6U95V
<ul> <li><u>Interactive Help &amp; Resources:</u></li> <li>StudentVUE and ParentVUE</li> <li>Class Website/Assignment Calendar: <ul> <li>http://tinyurl.com/sehs-geo-a</li> </ul> </li> </ul>	<ul> <li><u>Homework Reminders:</u></li> <li>Text messages: Send @sehs-geoa to 81010</li> </ul>

<u>Introduction</u>: This is the first trimester of a two-trimester Geometry course designed to provide you with a hands-on approach to learning geometric concepts. Using the *College Preparatory Mathematics* (CPM) curriculum, you will hone critical reasoning, develop collaborative skills & apply geometric methods to solve a variety of real-world & mathematical problems. Success in this course earns .5 MA credit per trimester and prepares you for Geometry B.

#### Assessment & Grading Practices:

Based on overall, weighted average of individual categories: Classwork, homework, INB (30%); quizzes, tests, and final exam (70%). I do not round up.

A: 90.00-100.00%, B: 80.00-89.99%, C: 70.00-79.99%, D: 60.00-69.99%, F: Below 60% Students will have multiple opportunities to show understanding & fluency. You are responsible for all material covered, assigned & assessed. Modifications & accommodations will be made for students with documented plans.

Please note 4j's revised "Procedures for Granting and Transferring Credit" in your Student/Parent Handbook. This section includes important information on partial credit, incomplete policies, withdrawing from a class, and deadlines for schedule or grade option changes.

Attendance & Expectations: Plan ahead. Arrive prepared to stay & work all period. Regular attendance is essential for success, and possibly full credit. *After an absence, it is your responsibility to find out what you missed & make it up*; some activities cannot be made up & may impact learning. You are expected to actively participate with your assigned teams. Respect people, ideas, property & everyone's right to learn. Smartphones, tablets, & personal computers may be used <u>at the teacher's discretion for class-specific purposes only.</u>

Materials: Arrive to class on time & ready to work. Bring the following items every day:

- College-rule composition book for INB (provided at beginning of trimester)
- Notebook (composition or spiral bound, college-rule or quad-rule) dedicated for homework and classwork in this course
- Sharpened pencils with erasers
- Scientific calculator after chapter 4; Graphing calculator is optional (Desmos app or TI 84 preferred)
- Your textbook (printed or digital) for this course
  - You are responsible for your textbook. The school requires you to pay for lost or stolen books (this one is \$75) before you get a replacement.
- Optional: Geometric tools set for *homework* (protractor, straight edge with inches & cm, compass)
  - If you are unable to obtain learning tools & materials, please let me know promptly & privately.

<u>Getting Help – Student Resources</u>: You will collaborate extensively in cooperative study teams & receive support from your instructor in class. Options outside of class should supplement in-class learning.

- You can review the resources in your interactive notebook, binder, assignments & assessments.
- You can use support at cpm.org, khanacademy.org, or other sites.
- After school peer tutors are available until 4:00 Mondays through Thursdays in the school Library.
- An e-book of the text is online (see above). A parent guide with extra practice is available for free at cpm.org.
- I am available during *Office Hours* at the times listed above, or by appointment. These times may also be used to demonstrate proficiency.

<u>Coursework</u>: *Common Core State Standards* include skills, knowledge, & the mathematical practices used to learn them. Oregon requires all students to pass 3 years of math (Algebra & higher) and to pass a comprehensive test (called *Smarter Balanced*) or produce a work sample. To prepare to meet these graduation requirements, you will create an interactive notebook, take various types of assessments, and engage in team & individual activities. This curriculum repeatedly "spirals" through topics, so expect to develop proficiency over time, rather than to master concepts upon the first exposure. Your strong efforts in and outside of class are essential to success.

Please respond to the online survey below:

Students:	Parent/Guardians:
In lieu of signing and returning this syllabus to me, please take the online survey at the link below:	In lieu of signing and having your student return the syllabus to me, please take the online survey at the link below:
https://tinyurl.com/studentsurvey-wiebe	https://tinyurl.com/pg-survey-wiebe

### **Grading Rubric**

	1 2 3 4 5				
	Beginning Proficiency	Developing Proficiency	Close to Proficient	Proficient	Highly Proficient
<b>Conceptual Assessments</b>	• Evidence shows no work or understanding	<ul> <li>Minimal understanding but demonstrates some effort towards understanding</li> <li>Student does not know how to do it but can formulate a question.</li> </ul>	<ul> <li>Within the process, minor conceptual errors were made</li> <li>Work is incorrect due to misconception of relevant concepts</li> </ul>	<ul> <li>Shows conceptual understanding of learning target even if there are computational errors</li> <li>Conceptual understanding is shown/present but there is not much justification or explanation of "why" or "how"</li> </ul>	<ul> <li>Problem solved one way and checked another.</li> <li>Work is correct and includes explanations of steps taken</li> <li>All relevant parameters defined</li> </ul>
Procedural	• Work specifically implements "wrong" method	• Many mistakes and/or major conceptual errors	• Mistakes made show procedural / "quick fix" errors	<ul> <li>Mistake because of minor non- conceptual error</li> <li>Some incorrect work from other learning targets affects result</li> </ul>	<ul> <li>All correct with no errors</li> <li>Trivial arithmetic mistake ok if not a situation where a check/review of work would have highlighted mistake</li> </ul>
Next Steps:	<ul> <li>Intense intervention with teacher.</li> <li>Student needs guided practice (Instructional Access (IA))</li> </ul>	<ul> <li>Moderate intervention with teacher.</li> <li>Student needs guided practice (IA)</li> </ul>	<ul> <li>Minimal intervention with teacher or another student who is highly proficient</li> <li>Student can independently practice (IA, home)</li> </ul>	<ul> <li>Opportunities to demonstrate, model and teach other students.</li> <li>Student can independently practice (home)</li> </ul>	<ul> <li>Opportunities to demonstrate, model and teach other students.</li> <li>Student can independently practice (home)</li> </ul>

#### Team Norms

# Success for the individual is inseparable from success for the team. Teaching & learning are mutually supportive activities; we all learn best when we teach one another.

- Keep all conversation within your team; keep any phone use for math only.
- Explain and justify your ideas; give statements and reasons.
- Helping your teammate does not mean giving answers. Help by giving hints and asking good questions.
- No one alone is as smart as all of us together. Do not leave anyone behind or let anyone work ahead. Your team is not done until everyone is done.

#### Whole-Class Discussion Norms

# Success for the individual is interdependent with success for all. Teaching & learning are mutually supportive activities; we all learn best when we listen to one another.

- Raise your hand to pose questions & comments.
- Refer to your work & your other resources when composing questions & comments.
- When another person is addressing the class, refrain from side-talk, even if on-topic.
- Offer to share your written work to support your verbal contributions.

#### **Formal Assessment Norms**

# For an exam (daily quiz, comprehensive unit quiz, final), use the opportunity to demonstrate proficiency & fluency, & afford all others the same opportunity.

- Adhere to school policy on academic integrity.
- No sharing; use your own calculator, your own *INB*, pencil, eraser & straight edge; *keep phones turned off & put away*.
- No talking, no communicating with others, no note-passing, etc.
- After turning in a quiz, review previous work, or preview upcoming lesson; keep all personal electronics off until instructor announces the quiz is over.

### **Geometry Learning Targets**

			8		
Geo01	I can describe & perform rigid transformations, both graphically & algebraically, & describe				
Geo02	symmetry in a figure. I can use & prove relationships among	angles form	ad by intersecting lines, emon	[G-CO.1-5]	
Geouz	within triangles; & among parts of tria			[G-CO.9-10]	
Geo03					
Geo04	I can perform constructions to produce objects with known angle- & length-relationships. [G-CO I can use & explain the connections between congruence & rigid motions, especially as applied				
00001	to triangle congruence.	tween congr	dence de rigid motions, especia	[G-CO.6-8]	
Geo05	I can use dilations, scale factor & the c	lefinition of s	similarity, to determine & estab		
	between 2 objects, especially triangles			[G-SRT.1-3]	
Geo06	I can use congruence & similarity criteria to solve problems & prove geometric relationship				
Geo07	I can identify & explain corresponding trigonometric ratios for acute angles in similar right triangles; & for acute angles & their complements; & use trigonometric ratios & the				
	Pythagorean Theorem to solve right tri	-	& use ingonometric ratios & i	[G-SRT.6-8]	
Geo08	I can identify indications for, & use, th		nes & the Law of Cosines.	[G-SRT.10-11]	
Geo09	I can use geometric shapes, their meas				
	situations, including those involving d		1 1 <sup>,</sup> J	[G-MG.1-2]	
Geo10	I can identify, find & use parts of, dim	ensions of, &	c formulas for volume of, circle	es, cylinders,	
	pyramids & cones.			[G-GMD.1-2]	
Geo11	I can identify relationships between 2- 3-D objects & 2-D objects rotated abo	-	<b>51</b>	es; & between	
Geo12	I can use algebraic tools to identify &	find informat	tion about polygons on the coo	rdinate plane. [G-GPE.4-6]	
Geo13	I can use proportional reasoning to rela	ate arc length	& sector area to a circle's circ	umference &	
	area.			[G-C.5]	
Geo14	I can identify & use relationships among	ng angles for	med by tangents, radii & chord	ls of circles. [G-C.2]	
Geo15	I can determine independence & find c	conditional pr	robability for probalistic events		
0 10	modeling data with 2-way tables.		· · · · ·	[S-CP.1-5]	
Geo16	I can use tree diagrams & area models	-	•	[S-CP.6-9]	
Geo17	I can calculate an analyze expected val	-			
Mth01	I can consistently & thoroughly compl		e		
Mth02	I can consistently & thoroughly make		neat, organized Interactive No	otebook.	
MP.1	I can make sense of problems and	MP.5	I can use appropriate tools	s strategically.	
	persevere in solving them.	MP.6	I can attend to precision.	_	
MP.2	I can reason abstractly and quantitatively.	MP.7	I can look for and make us		
MP.3	I can construct viable arguments and	MP.8	I can look for and express	regularity in	
	critique the reasoning of others.		repeated reasoning.		
MP.4	I can model with mathematics.				