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Geometry A/B–Course Description

Revised 4/18

Geometry students will develop reasoning and problem solving skills as they study topics such as congruence and similarity, and apply properties of lines, triangles, quadrilaterals, and circles. Students will also develop problem solving skills by using length, perimeter, area, circumference, surface area and volume to solve real-world problems. Algebra, data analysis and probability will be secondary topics in this course. The course will help prepare students for Smarter Balanced Testing and the Common Core standards.

The grading will be assigned in this manner:

Lecture Notebook	10%
Quiz (Hwk Quiz)	15%
Assignments (Homework)	25%
Performance Assessments/Worksample	10%
Tests	20%
Final Exam (FEXM)	20%

Homework will mostly be corrected based on completeness, with a few exceptions that will be corrected, and will generally be assessed using homework quizzes and tests. Homework is due as indicated, usually not the next day (except for practice quizzes). Students who are ill or absent may turn in late work. They will have 3 school days to make up missed work (due on the third day). Homework answers can usually be accessed on the class website. Students who routinely miss homework quizzes and/or tests because of school functions or other events outside of their control will need to make individual arrangements with Mr. Cooper.

Mr. Cooper will try to address most problems indicated by students, time permitting. If a student has a significant number of problems, they should seek out Mr. Cooper before or after school, or during his prep period.

Final Note: It is a shared responsibility for students to pass this class, and for learning the material presented in lecture and in the text. Mr. Cooper is the facilitator and presenter of information, and a resource for help when needed, while the student is responsible for being present, paying attention, practicing problems, completing assignments and studying.

Also, this course is preparatory for the Oregon Assessment, which incorporates the Common Core standards adopted by most states. Therefore we are bound to cover a defined amount of material in the semester, and students who need additional help may wish to seek help outside of class (for example, from Mr. Cooper, Khanacademy.org, homework club, advanced students, etc.).

Classroom Rules

Students will sit in seats as assigned.

All open drink containers will be stored on the back or side tables, except water.

When Mr. Cooper is talking to the class, no student may talk without permission. Students will raise their hands to ask for permission.

During classroom work periods, students will work on assigned work until finished.

Magazines/headphones/cell phones/ipods are not allowed in the classroom. They need to be silenced and stowed out of sight. A student may NOT use a cellphone as a calculator, due to test security concerns.

Students will treat each other with respect and dignity at all times.

When work is assigned during class, students will have paper and pencil out and be working on it immediately.

Common Core Standards included in curriculum:

G.CO.12 Make geometric constructions
G.MG.1 Apply geometric concepts in modeling situations
G.CO.9 Prove geometric theorems
G.CO.9-10 Prove geometric theorems
G.CO.12 Make geometric constructions
G.GPE.4-7 Use coordinates to prove simple geometric theorems algebraically
G.MG.1 Apply geometric concepts in modeling situations
G.CO.1-4 Experiment with transformations in the plane
G.CO.5-8 Understand congruence in terms of rigid motions
G.CO.9-10 Prove geometric theorems
G.CO.12 Make geometric constructions
G.GPE.4-7 Use coordinates to prove simple geometric theorems algebraically
G.MG.1 Apply geometric concepts in modeling situations
G.CO.12 Make geometric constructions
G.GPE.4-7 Use coordinates to prove simple geometric theorems algebraically
G.MG.1 Apply geometric concepts in modeling situations
G.CO.12 Make geometric constructions
G.SRT.1-3 Understand similarity in terms of similarity transformations
G.SRT.4-5 Prove theorems involving similarity
G.GPE.4-7 Use coordinates to prove simple geometric theorems algebraically
G.MG.1 Apply geometric concepts in modeling situations
G.SRT.1-3 Understand similarity in terms of similarity transformations
G.SRT.4-5 Prove theorems involving similarity
G.SRT.6-8 Define trigonometric ratios and solve problems involving right triangles
G.GPE.4-7 Use coordinates to prove simple geometric theorems algebraically
G.MG.1 Apply geometric concepts in modeling situations
Optional depending on time:
+G.SRT.9-11 Apply trigonometry to general triangles
G.CO.9-11 Prove geometric theorems
G.CO.12 Make geometric constructions
G.MG.1 Apply geometric concepts in modeling situations
G.CO.1-4 Experiment with transformations in the plane
G.CO.5-8 Understand congruence in terms of rigid motions
G.CO.12 Make geometric constructions
G.SRT.1-3 Understand similarity in terms of similarity transformations
G.MG.1 Apply geometric concepts in modeling situations
G.C.1-3 Understand and apply theorems about circles
G.GPE.1 Expressing geometric properties with equations
G.GPE.4-7 Use coordinates to prove simple geometric theorems algebraically
G.MG.1 Apply geometric concepts in modeling situations
G.C.5 Find arc lengths and areas of sectors of circles
G.GPE.4-7 Use coordinates to prove simple geometric theorems algebraically
G.MG.1 Apply geometric concepts in modeling situations
G.GMD.1-3 Explain volume formulas and use them to solve problems
G.GMD.4 Visualize the relationships between two-dimensional and three-dimensional objects
G.MG.1 Apply geometric concepts in modeling situations

Not Needed for this course

Not Needed for this course

Student Signature

Date

Parent/Guardian Signature

Date

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