Applied Geometry B Syllabus

Mr. Sours
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TEXTBOOK: <u>Discovering Geometry:</u> An Inductive Approach by Michael Serra
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CHAPTERS and TOPICS COVERED:

6: Polygon Properties – Polygon Sum Conjecture, Exterior Angles of a polygon, kite and trapezoid properties, properties of midsegments, properties of parallelograms, properties of special parallelograms

7: Circles – defining circles, chord properties, tangent properties, arcs and angles, circumference/diameter ratio

9: Area – areas of rectangles and parallelograms, areas of triangles, trapezoids, and kites, area problems, areas of regular polygons, areas of circles, surface area

10: Pythagorean Theorem – the theorem of Pythagoras, the converse of the Pythagorean theorem

11: Volume – polyhedrons, prisms, and pyramids, solids with curved surfaces, the five Platonic solids, volume of prisms and cylinders, volume of pyramids and cones, volume word problems, volume of a sphere

12: **Similarity** – ratio and proportion, similarity, similar triangles, indirect measurement with similar triangles

8: Transformations and Tessellations (time permitting) – transformations, tessellations with regular polygons and project

GRADING: Student **quarter** grades are calculated based on the percent of total points accumulated on tests, quizzes, projects, assignments and class period participation.

Quarter grades will be based on the following:

Class work and Projects
Notebook
Quizzes
Tests

Letter grades will be based on the following percentages:

97% to 100%	A+	77% to 79%	C +
93% to 96%	A	73% to 76%	C
90% to 92%	A −	70% to 72%	C −
87% to 89%	B +	67% to 69%	D +
83% to 86%	B	63% to 66%	D
80% to 82%	B −	60% to 62%	D −
		below 60%	F

Student **semester** grades are calculated averaging the percentages earned for the quarters that makeup the semester (45% for each quarter), a semester test (10%) and class. The distribution above will be used to change the earned percent grade to letter grade.

<u>The semester test will be a cumulative exam.</u>

MATERIALS NEEDED:
You will need a three-ring binder with dividers, **calculator**, loose-leaf paper, ruler, compass, protractor and pencils. You are expected to bring your **book, calculator** and other materials to class everyday. **You will **not** be allowed to go to your locker for any of these materials; this includes your homework assignment. **

Classroom Expectations

Every student has a right to an education. I expect an atmosphere conducive to learning be present in my classroom. Everyone must respect the right of each student to learn as well as the right of the teacher to teach. Therefore each student shall conduct himself/herself in a courteous manner appropriate for a learning environment.

CLASSWORK

All assignments will be completed in class. You are expected to work while you are in class. Assignments will be assigned daily. All assignments should be done in **pencil** and kept in your notebook for that quarter. SHOW YOUR WORK! Assignments will be checked daily. Late work will **not** be accepted. All work is to be your own. No copying or sharing answers. This will result in zero credit and an immediate referral to the office.

NOTEBOOKS

A three-ring binder with dividers used exclusively for this class is required. Notes, assignments, and handouts should all be kept in your notebook. Your notebook grade will be a percent calculated by the number of conjectures, investigations and definitions you complete each chapter. You can use your notebook on tests and quizzes.

EXCUSED ABSENCE DUE TO ILLNESS

Students with excused absences are responsible for getting the assignments they missed, and for scheduling a time when they are going to take any quizzes or tests they missed. Homework must be made up within two days for every day absent, and tests must be made up **before** the next test.

OTHER EXCUSED ABSENCES

Students excused from class for vacations, field trips, in-school activities, etc. are responsible for getting assignments before the absence. All assignments, quizzes, and tests must be made up within 2 days of your return to class. Failure to do so will result in a zero.

UNEXCUSED ABSENCE

Students with an unexcused absence will not be able to make up homework and no credit will be given on the homework missed.

EXTRA HELP

It is vital that you ask Mr. Sours for help when you are having difficulties understanding a topic. You need to assume this responsibility, as you know much sooner than anyone when difficulties arise. Generally, you should be able to ask questions during class time. However, if out of class time is needed, see Mr. Sours to set up a time.

Remember: You are the one who earns the grade, and that Mr. Sours only records what you have accomplished.