Spaulding High School
2021-2022 Course Syllabus

Course Title: Geometry
Department: Mathematics
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Course Description:
Geometry includes the mathematics of shapes and logical thinking. This course will cover the basics of geometrical concepts with a focus on problem solving and inductive reasoning. We will be using the textbook Discovering Geometry and will cover topics from *about* 11 chapters.

Materials/Text(s): Must have all these materials by the end of the first week.

- Graphing Calculator: TI-83 or TI-84
- Construction/measuring tools:
  - Compass-**Please see attached information, this is very important.**
  - Protractor (clear plastic)
  - Straightedge/Ruler (in/cm)
- 3-Ring Binder (1 ½-2")
- Pencils, erasers, pen
- Loose-leaf Paper
- Graph Paper
- Composition Book: this will be provided and used for all of your notes and conjectures **only.**
- Textbook Discovering Geometry: This will be provided to you by SHS. It is expected that your book will be **covered** and brought to class each day with **no papers in it**. (It is not a binder) The replacement cost for this book is $65

Assessment/Reassessment:

Assessments will consist of tests and quizzes.

Students who need to reassess a test will need to complete a reassessment packet. This will include the cover sheet (found in the classroom), all homework for a unit, and test corrections. The teacher will also check to make sure all notes are in the composition book. Once this is approved, the teacher will schedule the reassessment for advisory. You will not be able to reassess the same day you turn in the reassessment packet. All reassessments will occur in the room during advisory.

Classroom Expectations:

- Cell phone policy: Students are expected to turn their cell phone in at the beginning of each class period to the cell phone holder.
- Headphones and earbuds will not be permitted at any time.
- Apple Watches and similar electronic devices will be removed for tests.
- Unless asked to use it for class, chromebooks should remain put away.
- If you are absent, I expect you to go to the google classroom or a classmate to get the notes and the homework assignment. If you miss a quiz or a test, it is your responsibility to make arrangements to make it up within 48 hours.
- You will be assigned a group or partner during class, which will change each unit. You are expected to work with your group as instructed. You may not opt to work alone or with another group.
- If you are tardy, expect that after every 2 tardies you will be written up for Principal's detention. Tardy is defined as not in the room when the bell rings, ready to begin class with phone turned in, textbook open, homework out and a pen.
- You are not to be working on work for other classes during my class.

CHEATING: Cheating will not be tolerated in this course. Spaulding High School has an academic honesty policy, which I expect everyone in this course to follow. In this course, cheating includes copying of assignments as well as cheating on quizzes and tests. If you cannot, when work is returned, do by yourself problems that seem copied, then I will assume you cheated. This does not mean that you cannot work with others, but in the process you must learn how to do the work. **Please note cheating works both ways. If you allow someone to copy your work, you will also receive the same consequences.**

Compass Options

Correct:

Good:

BAD:

CC Geometry Standards Checklist 21-22 (Semester 2)

Standards		Code	Indicators	Unit	Prof
A. Prove and apply geometric theorems	P	1.	Solve to find angles in parallel lines	**4**	
	P	2.	successfully recognize triangle congruence shortcuts and name congruent triangles	**2**	
	P	3.	apply properties of special quadrilaterals to find sides and angles.	**3**	
	P	4.	recognize similar triangles and use those properties to calculate side lengths and angles	**5**	
	P	5.	Use algebra and coordinates to calculate parallel/perpendicular slopes, and find the midpoint of a segment	**7**	
	P	6.	write an equation for a circle, calculate distance of a segment	**6**	
	E	7.	name the correct property used to calculate angles	**1**	
	E	8.	correctly write two column proofs including CPCTC	**2**	
	E	9.	correctly use proportions related to angle bisectors and parallel lines	**5**	
	E	10.	Use coordinate geometry to determine types of polygons or tell if a point is on a circle given the equation	**7**	
B. Geometric construction	P	1.	Copy a segment	**1**	
	P	2.	Construct an equilateral triangle	**1**	
	P	3.	Copy an angle	**1**	
	P	4.	Construct a perpendicular bisector	**1**	
	P	5.	Construct a perpendicular to a point not on a line (Altitude)	**1**	
	P	6.	Construct parallel lines	**1**	
	P	7.	Construct an angle bisector	**1**	
	E	8.	Copy/construct triangles and quadrilaterals	**3**	
	E	9.	Can construct angle combinations of 90° and 60°, i.e. 112.5°	**1**	
	E	10.	Construct incenter and inscribed circle	**X**	
	E	11.	Construct circumcenter and circumscribed circle	**X**	
	E	12.	Complete circle constructions such as a tangent line	**4**	
C★Trigonometry	P*	1.	Label sides opposite, adjacent, and hypotenuse and choose appropriate trigonometric function,and set up ratios	**6**	
	P*	2.	Solve trigonometric ratios algebraically for side lengths	**6**	
	P*	3.	Use inverse trig functions	**6**	
	E	4.	Angle of elevation and depression	**6**	

D. Understand and apply theorems about circles	P*	1.	★ Find and apply measures of diameter, radii, chords	**4**	
	P	2.	Use properties of tangents to find lengths and angles	**4**	
	P	3.	Find and apply measures of arc measure, inscribed angles and central angles.	**4**	
	E	4.	Calculate arc length	**4**	
	E	5.	Find radius/diameter given arc length	**4**	
F. Understand and use volume formulas	P*	1.	★ Calculate volume given dimensions	**8**	
	E	2.	Calculate dimensions given volume	**8**	
	E	3.	Use ratios to determine area and volume of similar shapes	**8**	
G. Apply geometric concepts in modeling situations	P	1.	Plan: Create a viable plan. Include sketch and reasoning	**M**	
	P	2.	Execution: Process follows plan set in G1 and is reasonable. All work is shown. Answer is reasonable	**M**	
	E	3.	Conclusion: Answer is correct. Draw conclusions and interpret in context.	**M**	

*In order to receive credit for Geometry, students must be proficient in **C**, **D1**, **F1**.

Spaulding High School
2021-2022 Overall Course Performance Grading Guideline

COURSE PERFORMANCE RATING	GPA Value	GRADING CRITERIA
Exemplary	4.0	● **All** standards are Exemplary or Proficient, **AND** ● **Majority** of standards are Exemplary
Partially Exemplary	3.5	● **All** standards are Exemplary or Proficient, with at least one standard being Exemplary
Proficient	3.0	● **All** standards are Proficient
Partially Proficient	2.5	● **All required** standards are Exemplary or Proficient, **AND** ● **Majority** of standards are Proficient, **AND** ● **No** standards are Beginning or Insufficient Evidence
Developing	2.0	● **Majority** of standards are Developing.
Beginning	1.0	● **Majority** of standards are Beginning.
Insufficient Evidence	0.0	● **Majority** of the standards are Insufficient Evidence.

*Honors and AP courses would add an additional 0.33 to the GPA score.

The guideline is used to assess an overall course performance. When the guideline does not completely represent the situation, professional discretion will be used.