

Geometry Syllabus 2024 - 2025

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Requested Supply List

- ❖ 2 in binder
- ❖ PENCILS (Math is not ink friendly!)

Classroom Rules

- ❖ Academic Integrity is the commitment to and demonstration of honest and moral behavior in an academic setting. This applies to classroom and at home online assignments.
- ❖ NO CHEATING! You run the risk of not receiving course credit.
- ❖ Listen and Read often!
- ❖ Be prepared for class.
- ❖ Don't get up without permission unless it is absolutely necessary (i.e., you need a pencil or tissue).
- ❖ NO CELL PHONES! Cell phones **MUST** be silenced and placed in the calculator pockets or backpacks/pockets each day.

Grading

- ❖ 65% Notes, Classwork, Review Packets, Homework, Activities, Notebook checks, etc.
 - **All Classwork, Homework, & Review Packets must be completed 100% or no credit will be given.**
- ❖ 20% Projects and Mini Quizzes, & MasteryConnect Assignments
 - Mini Quizzes; timed and occur 2 or 3 times a week
 - MasteryConnect Mini Quizzes
 - 4 - 10 questions
 - 1 - 5 Specific Standards Assessed
 - Cube Root grading scale (like EOC)
- ❖ 15% Term Exams via MasteryConnect
- ❖ EOC Assessment will be 15% of overall FIN (whole semester) score
- ❖ **Percentages are subject to change!!!!**

Digital Platforms

- ❖ Skyward – Grades/Attendance
- ❖ Google Classroom – Communication & Assignment List
- ❖ enVision Savvas Realize (Textbook; Online Homework)
- ❖ MyLabsPlus - Homework
- ❖ DeltaMath – Homeworks and Review Packets
- ❖ MasteryConnect - Mini Quizzes; Benchmark Testing
- ❖ Quizlet; Blooket; Kahoot – Study Terms/Formulas/Games
- ❖ Zoom – Communication & Presentation (Hopefully we won't need this)

Geometry Reference Sheet

Reflect x-axis

$$(x, y) \rightarrow (x, -y)$$

Reflect y-axis

$$(x, y) \rightarrow (-x, y)$$

Reflect $y = x$

$$(x, y) \rightarrow (y, x)$$

Reflect $y = -x$

$$(x, y) \rightarrow (-y, -x)$$

Rotate 90° ccw

$$(x, y) \rightarrow (-y, x)$$

Rotate 180°

$$(x, y) \rightarrow (-x, -y)$$

Rotate 270° ccw

$$(x, y) \rightarrow (y, -x)$$

Sine

$$\frac{\text{opposite}}{\text{hypotenuse}}$$

Cosine

$$\frac{\text{adjacent}}{\text{hypotenuse}}$$

Tangent

$$\frac{\text{opposite}}{\text{adjacent}}$$

Distance Formula

$$d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$

Midpoint Formula

$$\left(\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2} \right)$$

Union of sets in probability (\cup)

all the elements from the sets

Intersection of sets in probability (\cap)

shared elements between the sets

Slope

$$\frac{y_2 - y_1}{x_2 - x_1}$$

Slope from Standard Form

$$-\frac{A}{B}; Ax + By = C$$

Volume of Rectangular Prism

$$V = lwh$$

Volume of Cylinder

$$V = \pi r^2 h$$

Volume of Cone

$$V = \frac{1}{3} \pi r^2 h$$

Volume of Sphere

$$V = \frac{4}{3} \pi r^3$$

Surface Area of Rectangular Prism

$$SA = 2(lw + hl + hw)$$

Surface Area of Cylinder

$$SA = 2\pi r^2 + 2\pi rh$$

Sector Area

$$\frac{m}{360} * \pi r^2$$

Geometry Pacing Guide

Lesson #	Standard	Title	Tentative # day(s)
		Unit 1 - Definitions & Transformations	12
Lesson #1	CO.C.8 G.N.Q.A.1	1-1 Measuring Segments and Angles	1
Lesson #2	CO.D.11 CO.C.8	1-2 Basic Constructions 1-7 Writing Proofs/Angle Pairs 2-1 Parallel Lines and Transversals 2-2 Proving Lines Parallel	3
Lesson #3	CO.A.1 CO.A.3 CO.A.4 CO.B.5	3-2 Translations	1
Lesson #4	CO.A.1 CO.A.3 CO.A.4 CO.B.5	3-1 Reflections	1
Lesson #5	CO.A.1 CO.A.3 CO.A.4 CO.B.5	3-3 Rotations	1
Lesson #6	CO.A.1 CO.A.2 CO.A.3 CO.A.4 CO.B.5	3-2 Compositions of Rigid Motions 3-4 Classification of Rigid Motions 3-5 Symmetry	2
Lesson #7	GPE.A.1 GPE.A.3 N.Q.A.1	1-3 Midpoint and Distance;include from the center of a circle and a point on the circle	1
Lesson #8	GPE.A.1 GPE.A.2 GPE.A.3	9-1 Polygons in the Coordinate Plane	1
Review Packet #1			1
		Unit 2 - Congruence	13
Lesson #9	CO.A.4 CO.B.5 CO.B.6	4-1 Congruence	1
Lesson #10	CO.C.9	2-3 Triangle Angle Sums 4-2 Isosceles and Equilateral Triangles	1

Lesson #11	CO.C.8 CO.C.9	5-1 Perpendicular and Angle Bisectors 5-2 Bisectors in Triangles 5-3 Medians and Altitudes 5-4 Inequalities in One Triangle	2
Lesson #12	CO.B.5 CO.B.6 CO.B.7	4-3 SAS and SSS Congruence Criteria 4-4 ASA and AAS Congruence Criteria 4-5 Congruence in Right Triangles	2
Lesson #13	CO.C.9	6-1 The Polygon Angle-Sum Theorem	1
Lesson #14	SRT.B.3	6-2 Kites and Trapezoids	1
Lesson #15	CO.C.10 SRT.B.3	6-3 Properties of Parallelograms 6-5 Properties of Special Parallelograms 6-6 Conditions of Special Parallelograms	2
Lesson #16	CO.C.9	4-3, 4-4, 4-5, 6-4 Proofs	2
Review Packet #2			1
		Unit 3 - Similarity & Dilations	5
Lesson #17	CO.A.1 SRT.A.1 G.N.Q.A.1	7-1 Dilations	1
Lesson #18	CO.A.1 SRT.A.1 G.N.Q.A.1 SRT.A.2	7-2 Similarity Transformations	1
Lesson #19	SRT.A.2 SRT.B.3	7-3 Proving Triangles Similar 7-4 Similarity in Right Triangles	1
Lesson #20	CO.C.9	7-5 Proportions in Triangles	1
Review Packet #3			1
		Unit 4 - Trigonometry	9
Lesson #21	SRT.B.3 SRT.C.5.a SRT.C.5.b N.Q.A.1	8-1 Right Triangles and the Pythagorean Theorem	1
Lesson #22	SRT.C.4 SRT.C.5.a	8-2 Trigonometric Ratios <ul style="list-style-type: none"> ● Setting up ratios ● Finding sides ● Finding angles 	3
Lesson #23	SRT.C.5.c	8-3 The Law of Sines	1
Lesson #24	SRT.C.5.c	8-4 The Law of Cosines	1

Lesson #25	SRT.C.5.a SRT.C.5.c N.Q.A.1	8-5 Problem Solving with Trigonometry	2
Review Packet #4			1
Midterms		Review and Midterms	
		Spring Benchmark	
		Unit 5 - Geometric Properties	2
Lesson #26	GPE.A.2	2-4 Slopes of Parallel and Perpendicular Lines	1
Review Packet #5			1
		Unit 6 - Circles	6
Lesson #27	C.A.1	10-1 Central Angles and Area of Sectors; include circumference and area of circles	2
Lesson #28	CO.D.12	10-2 Lines Tangent to a Circle	1
Lesson #29	CO.C.8	10-3 Chords	1
Lesson #30	CO.C.8	10-4 Inscribed Angles 10-5 Secant Lines and Segments	1
Review Packet #6			1
		Fall Benchmark	
		Unit 7 - Measurement & Dimension; Geometric Modeling	5
Lesson #31	N.Q.A.1 GMD.A.1 GMD.A.2 MG.A.1	11-1 Three-Dimensional Figures 11-2 Volumes of Prisms and Cylinders TN-1 Surface Area	1
Lesson #32	N.Q.A.1 GMD.A.1 GMD.A.2 MG.A.1	11-3 Pyramids and Cones 11-4 Spheres TN-1 Surface Area	1
Lesson #33	N.Q.A.1 GMD.A.1 GMD.A.2 MG.A.1	Chapter 11 - Composite Volumes and Applications	1
Review Packet #7			2
		Unit 8 - Probability	3
Lesson #34	S.CP.A.1 S.CP.B.3 S.CP.C.4	12-1 Probability Events TN - 2 Set Notation	1

Lesson #35	S.CP.B.2	12-2 Conditional Probability	1
Lesson #36	S.CP.C.4	TN-3 Finding Probabilities using Geometric Figures	1
EOC Practice Test	All		2
EOC Review	All	Review topics for EOC	TBD