PLANNED INSTRUCTION

COURSE DESCRIPTION

Course Title:	Geometry College Preparatory
Course Number:	00250
Course Prerequisites:	Grade of 75% or higher in Algebra II CP or Algebra II Honors
Course Description:	Geometry College Preparatory is an academic course designed to provide an opportunity for students to reason mathematically. Throughout this course, students will extend learning about geometric shapes and structures in order to apply how to analyze their characteristics and relationships to solve problems. The study of two- and three-dimensional models and their properties and measurements is the foundation of this course. Students will use these skills in representing and problem solving in other areas of mathematics and real-world situations. District marking period assessments are required.
Suggested Grade Leve	el: Grades 11-12
Length of Course:	Two Semesters
Units of Credit:	1
PDE Certification and	Staffing Policies and Guidelines (CSPG) Required Teacher Certifications:
CSPG #50 Mathematic	
To find the CSPG information,	go to <u>CSPG</u>
Certification verified	by the WCSD Human Resources Department:

WCSD STUDENT DATA SYSTEM INFORMATION

Academic		
Check all that apply. ⊠F – Final Average	⊠MP – Marking Period	🖾 EXM – Final Exam
,		
	Check all that apply. ☑ F – Final Average ☐ GPAEL-GPA Elementary	Check all that apply.

State Course Code: 02072

To find the State Course Code, go to State Course Code, download the Excel file for SCED, click on SCED 6.0 tab, and choose the correct code that corresponds with the course.

PLANNED INSTRUCTION

TEXTBOOKS AND SUPPLEMENTAL MATERIALS

Board Approved Textbooks, So	ftware, and Materials:
Title:	enVision Geometry
Publisher:	SAVVAS Learning Company, LLC.
ISBN #:	978-0-328-93155-2
Copyright Date:	2018
WCSD Board Approval Date:	6/29/2020
Supplemental Materials:	enVisionmath 2.0 Grade 6: SAVVAS Learning Company, LLC.,
	enVisionmath 2.0 Grade 7: SAVVAS Learning Company, LLC.,
	enVisionmath 2.0 Grade 8: SAVVAS Learning Company, LLC.,
	Kuta Software, Get More Math, SAS pdesas.org, IXL, Brainfuse,
	Calculator: TI-30XIIS, Online Calculator: Desmos

Curriculum Document

5/23/2022
6/13/2022
6/12/2023
2022-2023

SPECIAL EDUCATION, 504, and GIFTED REQUIREMENTS

The teacher shall make appropriate modifications to instruction and assessment based on a student's Individual Education Plan (IEP), Chapter 15 Section 504 Plan (504), and/or Gifted Individual Education Plan (GIEP).

PLANNED INSTRUCTION

SCOPE AND SEQUENCE OF CONTENT, AND CONCEPTS

Marking Period 1: Perimeter, Circumference, and Area, Geometric Probability,Foundations of Geometry and Coordinate Geometry,and Parallel and Perpendicular Lines

- Review: Perimeter, Circumference, and Area of Geometric Figures
- Probability of Non-Mutually Exclusive Events
- Identification, Names, and Measurements of Segments and Angles
- Midpoint and Distance
- Polygons in the Coordinate Plane
- Vertical Angles, Congruent Supplements, Congruent Complements
- Properties of Parallel Lines
- Proofs of Parallel Lines
- Parallel Lines and Triangles
- Slopes of Parallel and Perpendicular Lines
- Marking Period 1 Review and Assessment

Marking Period 2: Transformations, Triangle and Polygon Congruence, and Relationships in Triangles

- Reflections
- Translations
- Rotations
- Classification of Rigid Motion
- Symmetry
- Triangle Congruence
- Isosceles and Equilateral Triangles
- Proofs and Application of SAS, SSS, ASA, and AAS Congruence
- Congruence in Right Triangles HL
- Congruence in Overlapping Triangles
- Perpendicular and Angle Bisectors
- Bisectors in Triangles (Vocabulary only)
- Medians and Altitudes
- Inequalities in One Triangle and Two Triangles
- Marking Period 2 Review and Assessment

PLANNED INSTRUCTION

Marking Period 3: Quadrilaterals and Other Polygons, Similarity, and Right Triangles

- Polygon Angle-Sum Theorems
- Properties of Kites and Trapezoids
- Properties of Parallelograms
- Justification: Quadrilaterals are Parallelograms
- Properties and Conditions of Special Parallelograms
- Dilations
- Similarity Transformations
- Proportions in Triangles
- Right Triangles and the Pythagorean Theorem
- Marking Period 3 Review and Assessment

Marking Period 4: Trigonometry, Circles, and Two-and Three-Dimensional Models

- Trigonometric Ratios
- Area of a Triangle with Trigonometry
- Problem Solving with Trigonometry
- Arcs and Sectors
- Tangent Lines to a Circle
- Chords
- Inscribed Angles
- Secant Lines and Segments
- Surface Area: Prisms, Cylinders, Cones, Pyramids, Spheres
- Volume: Prisms, Cylinders, Cones, Pyramids, Spheres
- Composite Three-Dimensional Figures
- Marking Period 4 Review and Assessment

PLANNED INSTRUCTION

Standards/Eligible Content and Skills

Performance Indicator	PA Core Standard and/or Eligible Content	Marking Period Taught
Review: Perimeter, Circumference, Area of Geometric Figures	CC.2.3.HS.A.3	MP1
Estimate perimeter, circumference, or area of an irregular	G.2.2.2.1	MP1
geometric figure		
Find the measurement of a missing length, given the perimeter circumference, or area of a geometric figure	G.2.2.2.2	MP1
Develop and/or use strategies to estimate the area of a compound/composite figure	G.2.2.2.4	MP1
Find the side lengths of a polygon with a given perimeter to maximize the area of the polygon	G.2.2.2.3	MP1
Describe how a change in the linear dimension of a geometric figure affects its perimeter, circumference, and area	G.2.2.3.1	MP1
Review: Simple Probability	G.2.2.4	MP1
Use area models to find probabilities of non-mutually exclusive events (Geometric Probability)	G.2.2.4.1	MP1
Find segment lengths	CC.2.3.HS.A.3	MP1
Find the length of a segment	CC.2.3.HS.A.3	MP1
Use the Segment Addition Postulate	CC.2.3.HS.A.3	MP1
Use the Protractor Postulate to measure an angle	CC.2.3.HS.A.3	MP1
Apply the Angle Addition Postulate to model and solve real- world and mathematical problems	CC.2.3.HS.A.3 CC.2.3.HS.A.14	MP1
Use congruent angles and congruent segments	CC.2.3.HS.A.3	MP1
Define vocabulary related to basic constructions	CC.2.3.HS.A.3	MP1
Find a midpoint	G.2.1.2.1	MP1
Find the distance	G.2.1.2.1	MP1
Connect algebra and geometry through coordinates by calculating the distance and midpoint between two points on a coordinate plane	G.2.1.2.3	MP1
Classify a triangle on the coordinate plane	G.2.1.2.3	MP1
Classify a parallelogram on the coordinate plane	G.2.1.2.3	MP1
Classify quadrilaterals as trapezoids and kites on the coordinate plane	G.2.1.2.3	MP1
Apply the Vertical Angles Theorem to model and solve real- world and mathematical problems	G.2.2.1.1 CC.2.3.HS.A.3 CC.2.3.HS.A.14	MP1
Justify the Vertical Angles Theorem, Congruent Supplements Theorem, and/or Congruent Complements Theorem	G.1.3.2.1 G.2.2.1.1 CC.2.3.HS.A.3	MP1

Performance Indicator	PA Core Standard and/or Eligible Content	Marking Period Taught
Identify angle pairs when parallel lines are intersected by a transversal	G.2.2.1.2	MP1
Explore angle relationships and find angle measures when parallel lines are intersected by a transversal	G.2.2.1.2	MP1
Justify angle relationships: Same-Side Interior Angles, Alternate Interior Angles, Corresponding Angles, Alternate Exterior Angles	G.1.3.2.1 G.2.2.1.2 CC.2.3.HS.A.3	MP1
Use parallel lines to show angle relationships	G.2.2.1.2	MP1
Apply angle relationships to model and solve real-world and mathematical problems	G.2.2.1.1 G.2.2.1.2 CC.2.3.HS.A.14	MP1
Understand angle relationships when lines are not parallel	G.2.2.1.1	MP1
Determine whether lines are parallel	G.2.2.1.2	MP1
Solve real-world and mathematical problems with parallel lines	G.2.2.1.2 CC.2.3.HS.A.14	MP1
Investigate the measures of triangle angles	G.1.2.1.1	MP1
Use the Triangle Angle-Sum Theorem	G.1.2.1.1 CC.2.3.HS.A.3	MP1
Apply the Triangle Exterior Angle Theorem	G.1.2.1.1 CC.2.3.HS.A.3	MP1
Apply the triangle theorems to model and solve real-world and mathematical problems	G.1.2.1.1 CC.2.3.HS.A.3 CC.2.3.HS.A.14	MP1
Find the slopes of parallel lines	G.2.1.2.2	MP1
Check parallelism and perpendicularity	G.2.1.2.2	MP1
Write equations of parallel and perpendicular lines	G.2.1.2.2	MP1
Marking Period 1 Review and Assessment		MP1
 Review and demonstrate knowledge of Perimeter, Circumference, and Area 		MP1
 Review and demonstrate knowledge of Geometric Probability 		MP1
Review and demonstrate knowledge of the Foundations of Geometry and Coordinate Geometry		MP1
Review and demonstrate knowledge of Parallel and Perpendicular Lines		MP1
Identify rigid motions	CC.2.3.HS.A.1 CC.2.3.HS.A.2	MP2
Reflect a figure across a line	CC.2.3.HS.A.1 CC.2.3.HS.A.2	MP2
Reflect a figure on a coordinate plane	CC.2.3.HS.A.1 CC.2.3.HS.A.2	MP2
Describe a reflection on the coordinate plane	CC.2.3.HS.A.1 CC.2.3.HS.A.2	MP2

Performance Indicator	PA Core Standard and/or Eligible Content	Marking Period Taught
Use reflections to model and solve real-world and mathematical problems	CC.2.3.HS.A.1 CC.2.3.HS.A.2 CC.2.3.HS.A.14	MP2
Find the image of a translation	CC.2.3.HS.A.1 CC.2.3.HS.A.2	MP2
Write a translation rule	CC.2.3.HS.A.1 CC.2.3.HS.A.2	MP2
Compose translations	CC.2.3.HS.A.1 CC.2.3.HS.A.2	MP2
Relate translations and reflections	CC.2.3.HS.A.1 CC.2.3.HS.A.2	MP2
Draw rotations in the coordinate plane about the origin	CC.2.3.HS.A.1 CC.2.3.HS.A.2 CC.2.3.HS.A.4	MP2
Draw a rotated image about a specific point	CC.2.3.HS.A.1 CC.2.3.HS.A.2 CC.2.3.HS.A.4	MP2
Use rotations to model and solve real-world and mathematical problems	CC.2.3.HS.A.1 CC.2.3.HS.A.2 CC.2.3.HS.A.14	MP2
Investigate reflections and rotations	CC.2.3.HS.A.1 CC.2.3.HS.A.2	MP2
Draw the image of a glide reflection/composition of transformation	CC.2.3.HS.A.1 CC.2.3.HS.A.2 CC.2.3.HS.A.4	MP2
Identify transformations for symmetry	CC.2.3.HS.A.1 CC.2.3.HS.A.2	MP2
Identify lines of symmetry	CC.2.3.HS.A.1 CC.2.3.HS.A.2	MP2
Identify rotational symmetry	CC.2.3.HS.A.1 CC.2.3.HS.A.2	MP2
Determine symmetries	CC.2.3.HS.A.1 CC.2.3.HS.A.2	MP2
Understand and determine congruence	G.1.3.1.1	MP2
Identify congruent figures	G.1.3.1.1	MP2
Apply congruence to model and solve real-world and mathematical problems	G.1.3.1.1 CC.2.3.HS.A.3 CC.2.3.HS.A.14	MP2
Understand the angles of isosceles triangles	G.1.2.1.3	MP2
Solve real-world and mathematical problems using the Isosceles Triangle Theorem and the Converse of the Isosceles Triangle Theorem	G.1.2.1.3 CC.2.3.HS.A.3 CC.2.3.HS.A.14	MP2
Use perpendicular bisectors	G.1.2.1.3	MP2

Performance Indicator	PA Core Standard and/or Eligible Content	Marking Period Taught
Find the angle measures in isosceles and equilateral triangles	G.1.2.1.3	MP2
Write and complete a two-column proof applying Side-Angle- Side (SAS) and Side-Side-Side (SSS) congruence	G.1.3.1.1 G.1.3.2.1 CC.2.3.HS.A.3	MP2
Determine congruent triangles: SAS, SSS	G.1.3.1.1 CC.2.3.HS.A.3	MP2
Apply SAS and SSS congruence to model and solve real-world and mathematical problems	G.1.3.1.1 CC.2.3.HS.A.3 CC.2.3.HS.A.14	MP2
Write and complete a two-column proof applying Angle-Side- Angle (ASA) and Angle-Angle- Side (AAS) congruence	G.1.3.1.1 G.1.3.2.1 CC.2.3.HS.A.3	MP2
Apply ASA and AAS congruence to model and solve real-world and mathematical problems	G.1.3.1.1 CC.2.3.HS.A.3 CC.2.3.HS.A.14	MP2
Determine congruent triangles: SAS, SSS, ASA, AAS	G.1.3.1.1 CC.2.3.HS.A.3	MP2
Investigate right triangle congruence using HL (Hypotenuse-Leg)	G.2.1.1 CC.2.3.HS.A.3	MP2
Write and complete a two-column proof applying HL (Hypotenuse-Leg) congruence	G.1.3.1.1 G.1.3.2.1 CC.2.3.HS.A.3	MP2
Use HL congruence to model and solve real-world and mathematical problems	G.1.3.1.1 G.2.1.1 CC.2.3.HS.A.3 CC.2.3.HS.A.14	MP2
Determine congruent polygons	G.1.3.1.1 CC.2.3.HS.A.3	MP2
Separate overlapping triangles	G.1.3.1 G.1.3.1.2	MP2
Identify the corresponding parts in separate triangles and overlapping triangles	G.1.3.1 G.1.3.1.2 CC.2.3.HS.A.3	MP2
Use the common parts of separate triangles and overlapping triangles	G.1.3.1.2 CC.2.3.HS.A.3	MP2
Write and complete a two-column proof applying triangle congruence to two overlapping triangles	G.1.3.1.1 G.1.3.1.2 G.1.3.2.1 CC.2.3.HS.A.3	MP2
Find equidistant points	CC.2.3.HS.A.3	MP2
Apply the Perpendicular Bisector Theorem and its converse to model and solve real-world and mathematical problems	CC.2.3.HS.A.3 CC.2.3.HS.A.14	MP2
Find equidistant points from the sides of an angle	CC.2.3.HS.A.3	MP2
Apply the Angle Bisector Theorem and its converse to model and solve real-world and mathematical problems	CC.2.3.HS.A.3 CC.2.3.HS.A.14	MP2

Circumcenter, Angle Bisectors, IncenterG.1.2.1.1MP2Identify the altitude and median in trianglesG.1.2.1.1MP2Find the length of the medianG.1.2.1.1MP2Investigate side and angle relationships in a triangleG.1.2.1.1MP2Compare angles in a triangle using the Triangle Longer SideG.1.3.1.1MP2Compare sides in a triangle using the Triangle Larger AngleG.1.3.1.1MP2Compare sides in a triangle using the Triangle Larger AngleG.1.2.1.1MP2Compare sides in a triangle using the Triangle Larger AngleG.1.2.1.1MP2Compare sides in a triangle using the Triangle Larger AngleG.1.2.1.1MP2Compare sides in a triangle using the Triangle to model and solve real-world and mathematical problemsG.1.2.1.1MP2Compare side lengths in trianglesG.1.2.1.1MP2MP2Apply the Hinge Theorem and its converse to model and solveG.1.2.1.1MP2e Review and demonstrate knowledge of TransformationsMP2MP2• Review and demonstrate knowledge of Relationships in TrianglesMP2MP2• Review and demonstrate knowledge of Relationships in TrianglesMP3G.1.2.1MP3Find the measure of the interior angle(s) of a polygonG.1.2.1.4MP3MP3Apply the Polygon Interior Angle-Sum and Polygon ExteriorG.1.2.1.2MP3Model and solve real-world and mathematical problemsG.1.2.1.2MP3Model and solve real-world and mathematical problemsG.1.2.1.2MP3Explore parts of an isocceles trapezoid	Performance Indicator	PA Core Standard and/or Eligible Content	Marking Period Taught
Identify the altitude and median in trianglesG.1.2.1.1MP2Find the length of the medianG.1.2.1.1MP2Find the length of the medianG.1.2.1.1MP2Investigate side and angle relationships in a triangleG.1.2.1.1MP2Compare angles in a triangle using the Triangle Longer SideG.1.3.1.1MP2Compare sides in a triangle using the Triangle Larger AngleG.1.3.1.1MP2TheoremC.2.3.HS.A.3MP2Apply the Triangle Inequality Theorem for one triangle to modelG.1.2.1.1MP2and solve real-world and mathematical problemsG.1.2.1.1MP2Apply the Hinge Theorem and its converse to model and solveG.1.2.1.1MP2eral-world and mathematical problemsG.1.2.1.1MP2Marking Period 2 Review and AssessmentMP2MP2• Review and demonstrate knowledge of Triangle and Polygon CongruenceMP2MP2• Review and demonstrate knowledge of Relationships in TrianglesMP3MP3Find the exterior angle measure(s) of a polygonG.1.2.1.4 C.2.3.HS.A.3 C.2.3.HS.A.3MP3Find the exterior angle measure(s) of a polygon Exterior Angle-Sum Theorems to model and solve real-world and mathematical problemsG.1.2.1.2MP3Kaply the Polygon Interior Angle-Sum and Polygon Exterior Model and solve real-world and mathematical problemsG.1.2.1.2MP3Kapler parts of an isosceles trapezoidG.1.2.1.2MP3Kapler parts of an isosceles trapezoidG.1.2.1.2MP3Kapler parts of an isosceles trapezoidG.1.2.1.2 </td <td>Define and identify in triangles: Perpendicular Bisectors,</td> <td>G.1.2.1.1</td> <td>MP2</td>	Define and identify in triangles: Perpendicular Bisectors,	G.1.2.1.1	MP2
Find the length of the medianG.1.2.1.1MP2Investigate side and angle relationships in a triangleG.1.2.1.1MP2Compare angles in a triangle using the Triangle Longer SideG.1.2.1.1MP2Compare sides in a triangle using the Triangle Larger AngleG.1.3.1.1CC.2.3.HS.A.3MP2Compare sides in a triangle using the Triangle Larger AngleG.1.3.1.1CC.2.3.HS.A.3MP2Compare sides in a triangle using the Triangle Larger AngleG.1.2.1.1MP2MP2C.2.3.HS.A.3G.1.2.1.1MP2G.1.2.1.1MP2Apply the Triangle Inequality Theorem for one triangle to model and solve real-world and mathematical problemsG.1.2.1.1MP2Apply the Hinge Theorem and its converse to model and solve real-world and mathematical problemsG.1.2.1.1MP2• Review and demonstrate knowledge of TransformationsMP2MP2• Review and demonstrate knowledge of Triangle and Polygon CongruenceMP2MP2• Review and demonstrate knowledge of a polygonG.1.2.1. CC.2.3.HS.A.3MP3Find the exterior angle measure(s) of a polygonG.1.2.1.4MP3CC.2.3.HS.A.3MP3CC.2.3.HS.A.3MP3Find the exterior angle measure(s) of a polygonG.1.2.1.2MP3Model and solve real-world and mathematical problemsG.1.2.1.2MP3Model and solve real-world and mathematical problemsG.1.2.1.2MP3Find the exterior angle measure(s) of a polygonG.1.2.1.2MP3Model and solve real-world and mathematical problemsG.1.2.1.2			
Investigate side and angle relationships in a triangleG.1.2.1.1MP2Compare angles in a triangle using the Triangle Longer Side TheoremG.1.3.1.1 C.2.3.HS.A.3MP2Compare sides in a triangle using the Triangle Larger Angle TheoremG.1.3.1.1 C.2.3.HS.A.3MP2Apply the Triangle Inequality Theorem for one triangle to model and solve real-world and mathematical problemsG.1.2.1.1 C.2.3.HS.A.3 C.2.3.HS.A.3MP2Investigate side lengths in trianglesG.1.2.1.1MP2Apply the Hinge Theorem and its converse to model and solve real-world and mathematical problemsG.1.2.1.1 C.2.3.HS.A.3 C.2.3.HS.A.14MP2Marking Period 2 Review and AssessmentMP2MP2• Review and demonstrate knowledge of TransformationsMP2• Review and demonstrate knowledge of Relationships in TrianglesMP2Find the measure of the interior angle(s) of a polygonG.1.2.1.4 C.2.3.HS.A.3MP3Find the exterior angle measure(s) of a polygonG.1.2.1.4 C.2.3.HS.A.3MP3Apply the Polygon Interior Angle-Sum and Polygon Exterior and solve real-world and mathematical problemsG.1.2.1.4 C.2.3.HS.A.3MP3Find the aster of the interior angle(s) of a polygonG.1.2.1.2MP3Explore parts of an isosceles trapezoidG.1.2.1.2MP3Model and solve real-world and mathematical problemsG.1.2.1.2MP3Livestigate and use the diagonals of a kiteG.1.2.1.2MP3Explore parts of an isosceles trapezoidG.1.2.1.2MP3Livestigate and use the diagonals of a parallelogram<			
Compare angles in a triangle using the Triangle Longer SideG.1.3.1.1 CC.2.3.HS.A.3MP2Compare sides in a triangle using the Triangle Larger AngleG.1.3.1.1 CC.2.3.HS.A.3MP2TheoremG.1.3.1.1 CC.2.3.HS.A.3MP2Apply the Triangle Inequality Theorem for one triangle to model and solve real-world and mathematical problemsG.1.2.1.1 CC.2.3.HS.A.14MP2Investigate side lengths in trianglesG.1.2.1.1 CC.2.3.HS.A.14MP2Apply the Hinge Theorem and its converse to model and solve real-world and mathematical problemsG.1.2.1.1 CC.2.3.HS.A.14MP2Marking Period 2 Review and AssessmentMP2MP2• Review and demonstrate knowledge of TransformationsMP2• Review and demonstrate knowledge of Triangle and Polygon CongruenceMP2• Review and demonstrate knowledge of Relationships in TrianglesMP3Find the measure of the interior angle(s) of a polygonG.1.2.1.1 CC.2.3.HS.A.3MP3Find the exterior angle measure(s) of a polygonG.1.2.1.4 CC.2.3.HS.A.3MP3Apply the Polygon Interior Angle-Sum and Polygon Exterior and use the diagonals of a kiteG.1.2.1.2MP3Explore parts of an isosceles trapezoidG.1.2.1.2MP3Model and solve real-world and mathematical problemsG.1.2.1.2MP3Explore opposite sides and angle measures of a parallelogram to and solve real-world and mathematical problemsG.1.2.1.2MP3Explore opposite sides and angle measures of a parallelogram to and solve real-world and mathematical problemsG.1.2.1.2MP3Explor			
TheoremCC.2.3.HS.A.3MP2Compare sides in a triangle using the Triangle Larger Angle TheoremG.1.3.1.1 CC.2.3.HS.A.3MP2Apply the Triangle Inequality Theorem for one triangle to model and solve real-world and mathematical problemsG.1.2.1.1 CC.2.3.HS.A.3 CC.2.3.HS.A.14MP2Apply the Hinge Theorem and its converse to model and solve real-world and mathematical problemsG.1.2.1.1 CC.2.3.HS.A.3 CC.2.3.HS.A.14MP2Apply the Hinge Theorem and its converse to model and solve real-world and mathematical problemsG.1.2.1.1 CC.2.3.HS.A.3 CC.2.3.HS.A.14MP2• Review and demonstrate knowledge of TransformationsMP2MP2• Review and demonstrate knowledge of Relationships in TrianglesMP2MP2• Review and demonstrate knowledge of Relationships in TrianglesMP3MP3Find the measure of the interior angle(s) of a polygonG.1.2.1 CC.2.3.HS.A.3MP3Find the exterior angle measure(s) of a polygon Exterior Angle-Sum Theorems to model and solve real-world and mathematical problemsG.1.2.1.4 CC.2.3.HS.A.3MP3Investigate and use the diagonals of a kiteG.1.2.1.2MP3Explore parts of an isosceles trapezoidG.1.2.1.2MP3Model and solve real-world and mathematical problemsG.1.2.1.2MP3Livestigate and use the diagonals of a kiteG.1.2.1.2MP3Explore opposite sides and angle measures of a parallelogramG.1.2.1.2MP3Livestigate and use the diagonals of a kiteG.1.2.1.2MP3Explore opposite sides and angle measures of a parallelogra			MP2
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Apply the Priangle inequality Theorem for one triangle to model and solve real-world and mathematical problemsCC.2.3.HS.A.3 CC.2.3.HS.A.14MP2Investigate side lengths in trianglesG.1.2.1.1MP2Apply the Hinge Theorem and its converse to model and solve real-world and mathematical problemsG.1.2.1.1 	Compare sides in a triangle using the Triangle Larger Angle Theorem		MP2
Apply the Hinge Theorem and its converse to model and solve real-world and mathematical problemsG.1.2.1.1 C.2.3.HS.A.3 C.C.3.HS.A.14MP2Marking Period 2 Review and AssessmentMP2• Review and demonstrate knowledge of TransformationsMP2• Review and demonstrate knowledge of Triangle and 	Apply the Triangle Inequality Theorem for one triangle to model and solve real-world and mathematical problems	CC.2.3.HS.A.3	MP2
Apply the Hinge Theorem and its converse to model and solve real-world and mathematical problemsCC.2.3.HS.A.3 CC.2.3.HS.A.14MP2Marking Period 2 Review and AssessmentMP2• Review and demonstrate knowledge of TransformationsMP2• Review and demonstrate knowledge of Triangle and Polygon CongruenceMP2• Review and demonstrate knowledge of Relationships in TrianglesMP2• Review and demonstrate knowledge of Relationships in TrianglesMP2• Review and demonstrate knowledge of a polygonG.1.2.1 CC.2.3.HS.A.3MP3Find the measure of the interior angle(s) of a polygonG.1.2.1 CC.2.3.HS.A.3MP3Find the exterior angle measure(s) of a polygon Exterior Angle-Sum Theorems to model and solve real-world and mathematical problemsG.1.2.1.4 CC.2.3.HS.A.3MP3Investigate and use the diagonals of a kiteG.1.2.1.2MP3Model and solve real-world and mathematical problems involving isosceles trapezoidsG.1.2.1.2MP3Apply the Trapezoid Midsegment Theorem to model and solve real-world and mathematical problemsG.1.2.1.2MP3Use opposite sides and angle measures of a parallelogram to solve real-world and mathematical problemsG.1.2.1.2MP3Lypor the diagonals of a parallelogram to model and solve real-world and mathematical problemsG.1.2.1.2MP3	Investigate side lengths in triangles	G.1.2.1.1	MP2
Review and demonstrate knowledge of TransformationsMP2• Review and demonstrate knowledge of Triangle and Polygon CongruenceMP2• Review and demonstrate knowledge of Relationships in TrianglesMP2• Review and demonstrate knowledge of Relationships in TrianglesMP2Find the measure of the interior angle(s) of a polygonG.1.2.1 CC.2.3.HS.A.3MP3Find the exterior angle measure(s) of a polygon Exterior Angle-Sum Theorems to model and solve real-world and mathematical problemsG.1.2.1.4 CC.2.3.HS.A.3MP3Investigate and use the diagonals of a kiteG.1.2.1.2MP3Explore parts of an isosceles trapezoidG.1.2.1.2MP3Model and solve real-world and mathematical problemsG.1.2.1.2MP3Model and solve real-world and mathematical problemsG.1.2.1.2MP3Model and solve real-world and mathematical problemsG.1.2.1.2MP3Use opposite sides and angle measures of a parallelogramG.1.2.1.2MP3Use opposite sides and angle measures of a parallelogram to model and solve real-world and mathematical problemsG.1.2.1.2MP3Use opposite sides and angle measures of a parallelogram to model and solve real-world and mathematical problemsG.1.2.1.2MP3Use opposite sides and angle measures of a parallelogram to model and solve real-world and mathematical problemsG.1.2.1.2MP3Use opposite sides and angle measures of a parallelogram to model and solve real-world and mathematical problemsG.1.2.1.2MP3Use opposite sides and angle measures of a parallelogram to model and solve real-worl	Apply the Hinge Theorem and its converse to model and solve real-world and mathematical problems	CC.2.3.HS.A.3	MP2
 Review and demonstrate knowledge of Triangle and Polygon Congruence Review and demonstrate knowledge of Relationships in Triangles MP2 MP2 Find the measure of the interior angle(s) of a polygon G.1.2.1 C.2.3.HS.A.3 Find the exterior angle measure(s) of a polygon G.1.2.1 C.2.3.HS.A.3 MP3 Apply the Polygon Interior Angle-Sum and Polygon Exterior Angle-Sum Theorems to model and solve real-world and mathematical problems Investigate and use the diagonals of a kite Explore parts of an isosceles trapezoid MP3 G.1.2.1.2 MP3 MP3 MP3 Explore opposite sides and angle measures of a parallelogram to model and solve real-world and mathematical problems G.1.2.1.2 MP3 MP3<td>Marking Period 2 Review and Assessment</td><td></td><td>MP2</td>	Marking Period 2 Review and Assessment		MP2
Polygon CongruenceMP2• Review and demonstrate knowledge of Relationships in TrianglesMP2Find the measure of the interior angle(s) of a polygonG.1.2.1 C.2.3.HS.A.3MP3Find the exterior angle measure(s) of a polygonG.1.2.1 C.2.3.HS.A.3MP3Apply the Polygon Interior Angle-Sum and Polygon Exterior Angle-Sum Theorems to model and solve real-world and mathematical problemsG.1.2.1.4 C.2.3.HS.A.3MP3Investigate and use the diagonals of a kiteG.1.2.1.2MP3Model and solve real-world and mathematical problemsG.1.2.1.2MP3Model and solve real-world and mathematical problemsG.1.2.1.2MP3Model and solve real-world and mathematical problemsG.1.2.1.2MP3Model and solve real-world and mathematical problemsG.1.2.1.2MP3Explore opposite sides and angle measures of a parallelogramG.1.2.1.2MP3Use opposite sides and angle measures of a parallelogram to model and solve real-world and mathematical problemsG.1.2.1.2MP3Explore the diagonals of a parallelogram to model and solve real-world and mathematical problemsG.1.2.1.2MP3	Review and demonstrate knowledge of Transformations		MP2
Review and demonstrate knowledge of Relationships in TrianglesMP2Find the measure of the interior angle(s) of a polygonG.1.2.1 CC.2.3.HS.A.3MP3Find the exterior angle measure(s) of a polygonG.1.2.1 CC.2.3.HS.A.3MP3Apply the Polygon Interior Angle-Sum and Polygon Exterior Angle-Sum Theorems to model and solve real-world and mathematical problemsG.1.2.1.4 CC.2.3.HS.A.14MP3Investigate and use the diagonals of a kiteG.1.2.1.2MP3Explore parts of an isosceles trapezoidG.1.2.1.2MP3Model and solve real-world and mathematical problemsG.1.2.1.2MP3Model and solve real-world and mathematical problemsG.1.2.1.2MP3Model and solve real-world and mathematical problemsG.1.2.1.2MP3Model and solve real-world and mathematical problemsG.1.2.1.2MP3Involving isosceles trapezoidsG.1.2.1.2MP3Model and solve real-world and mathematical problemsG.1.2.1.2MP3Lyply the Trapezoid Midsegment Theorem to model and solve real-world and mathematical problemsG.1.2.1.2MP3Use opposite sides and angle measures of a parallelogramG.1.2.1.2MP3Use opposite sides and angle measures of a parallelogram to model and solve real-world and mathematical problemsG.1.2.1.2MP3Explore the diagonals of a parallelogramG.1.2.1.2MP3MP3			MP2
Find the measure of the interior angle(s) of a polygonCC.2.3.HS.A.3MP3Find the exterior angle measure(s) of a polygonG.1.2.1 CC.2.3.HS.A.3MP3Apply the Polygon Interior Angle-Sum and Polygon Exterior Angle-Sum Theorems to model and solve real-world and mathematical problemsG.1.2.1.4 CC.2.3.HS.A.3MP3Investigate and use the diagonals of a kiteG.1.2.1.2MP3Explore parts of an isosceles trapezoidG.1.2.1.2MP3Model and solve real-world and mathematical problems involving isosceles trapezoidsG.1.2.1.2MP3Apply the Trapezoid Midsegment Theorem to model and solve real-world and mathematical problemsG.1.2.1.2MP3Use opposite sides and angle measures of a parallelogram to model and solve real-world and mathematical problemsG.1.2.1.2MP3Use opposite sides and angle measures of a parallelogram to model and solve real-world and mathematical problemsG.1.2.1.2MP3Use opposite sides and angle measures of a parallelogram to model and solve real-world and mathematical problemsG.1.2.1.2MP3Use opposite sides and angle measures of a parallelogram to model and solve real-world and mathematical problemsG.1.2.1.2MP3Explore the diagonals of a parallelogramG.1.2.1.2MP3	Review and demonstrate knowledge of Relationships in		MP2
Find the exterior angle measure(s) of a polygonCC.2.3.HS.A.3MP3Apply the Polygon Interior Angle-Sum and Polygon Exterior Angle-Sum Theorems to model and solve real-world and mathematical problemsG.1.2.1.4MP3Investigate and use the diagonals of a kiteG.1.2.1.2MP3Explore parts of an isosceles trapezoidG.1.2.1.2MP3Model and solve real-world and mathematical problemsG.1.2.1.2MP3Model and solve real-world and mathematical problemsG.1.2.1.2MP3Model and solve real-world and mathematical problemsG.1.2.1.2MP3Explore opposite sides and angle measures of a parallelogramG.1.2.1.2MP3Use opposite sides and angle measures of a parallelogram to model and solve real-world and mathematical problemsG.1.2.1.2MP3Lexplore the diagonals of a parallelogramG.1.2.1.2MP3MP3Explore the diagonals of a parallelogram to model and solve real-world and mathematical problemsG.1.2.1.2MP3	Find the measure of the interior angle(s) of a polygon	CC.2.3.HS.A.3	MP3
Angle-Sum Theorems to model and solve real-world and mathematical problemsCC.2.3.HS.A.3 CC.2.3.HS.A.14MP3Investigate and use the diagonals of a kiteG.1.2.1.2MP3Explore parts of an isosceles trapezoidG.1.2.1.2MP3Model and solve real-world and mathematical problems involving isosceles trapezoidsG.1.2.1.2MP3Apply the Trapezoid Midsegment Theorem to model and solve real-world and mathematical problemsG.1.2.1.2MP3Explore opposite sides and angle measures of a parallelogramG.1.2.1.2MP3Use opposite sides and angle measures of a parallelogram to model and solve real-world and mathematical problemsG.1.2.1.2MP3Explore the diagonals of a parallelogramG.1.2.1.2MP3MP3	Find the exterior angle measure(s) of a polygon		MP3
Explore parts of an isosceles trapezoidG.1.2.1.2MP3Model and solve real-world and mathematical problems involving isosceles trapezoidsG.1.2.1.2 CC.2.3.HS.A.14MP3Apply the Trapezoid Midsegment Theorem to model and solve real-world and mathematical problemsG.1.2.1.2 CC.2.3.HS.A.14MP3Explore opposite sides and angle measures of a parallelogram model and solve real-world and mathematical problemsG.1.2.1.2 CC.2.3.HS.A.14MP3Use opposite sides and angle measures of a parallelogram to model and solve real-world and mathematical problemsG.1.2.1.2 CC.2.3.HS.A.14MP3Explore the diagonals of a parallelogramG.1.2.1.2 CC.2.3.HS.A.14MP3	Apply the Polygon Interior Angle-Sum and Polygon Exterior Angle-Sum Theorems to model and solve real-world and mathematical problems	CC.2.3.HS.A.3	MP3
Model and solve real-world and mathematical problems involving isosceles trapezoidsG.1.2.1.2 CC.2.3.HS.A.14MP3Apply the Trapezoid Midsegment Theorem to model and solve real-world and mathematical problemsG.1.2.1.2 CC.2.3.HS.A.14MP3Explore opposite sides and angle measures of a parallelogram model and solve real-world and mathematical problemsG.1.2.1.2 CC.2.3.HS.A.14MP3Use opposite sides and angle measures of a parallelogram to 	Investigate and use the diagonals of a kite	G.1.2.1.2	MP3
involving isosceles trapezoidsCC.2.3.HS.A.14MP3Apply the Trapezoid Midsegment Theorem to model and solve real-world and mathematical problemsG.1.2.1.2 CC.2.3.HS.A.14MP3Explore opposite sides and angle measures of a parallelogramG.1.2.1.2 CC.2.3.HS.A.14MP3Use opposite sides and angle measures of a parallelogram to model and solve real-world and mathematical problemsG.1.2.1.2 CC.2.3.HS.A.14MP3Explore the diagonals of a parallelogramG.1.2.1.2 CC.2.3.HS.A.14MP3	Explore parts of an isosceles trapezoid	G.1.2.1.2	MP3
real-world and mathematical problemsCC.2.3.HS.A.14MP3Explore opposite sides and angle measures of a parallelogramG.1.2.1.2MP3Use opposite sides and angle measures of a parallelogram to model and solve real-world and mathematical problemsG.1.2.1.2MP3Explore the diagonals of a parallelogramG.1.2.1.2MP3	Model and solve real-world and mathematical problems involving isosceles trapezoids		MP3
Use opposite sides and angle measures of a parallelogram to model and solve real-world and mathematical problemsG.1.2.1.2 CC.2.3.HS.A.14MP3Explore the diagonals of a parallelogramG.1.2.1.2MP3	Apply the Trapezoid Midsegment Theorem to model and solve real-world and mathematical problems		MP3
model and solve real-world and mathematical problemsCC.2.3.HS.A.14MP3Explore the diagonals of a parallelogramG.1.2.1.2MP3	Explore opposite sides and angle measures of a parallelogram	G.1.2.1.2	MP3
	Use opposite sides and angle measures of a parallelogram to model and solve real-world and mathematical problems		MP3
	Explore the diagonals of a parallelogram	G.1.2.1.2	MP3
	Find unknown lengths in a parallelogram	G.1.2.1.2	MP3
	Investigate sides to confirm a parallelogram	G.1.2.1.2	MP3

Performance Indicator	PA Core Standard and/or Eligible Content	Marking Period Taught
Explore angle measures to confirm a parallelogram	G.1.2.1.2	MP3
Find values to make parallelograms	G.1.2.1.2	MP3
Investigate diagonals to confirm a parallelogram	G.1.2.1.2	MP3
Identify a parallelogram	G.1.2.1.2	MP3
Find the diagonals of a rhombus	G.1.2.1.2	MP3
Find lengths and angle measures in a rhombus	G.1.2.1.2	MP3
Find diagonal lengths of a rectangle	G.1.2.1.2	MP3
Find diagonal and angle measures of a square	G.1.2.1.2	MP3
Use properties of rhombuses, rectangles, and squares to model	G.1.2.1.2	MP3
and solve real-world and mathematical problems	CC.2.3.HS.A.14	
Use diagonals to identify rhombuses	G.1.2.1.2	MP3
Use diagonals to identify rectangles	G.1.2.1.2	MP3
Identify special parallelograms	G.1.2.1.2	MP3
Use conditions of special parallelograms to model and solve real-world and mathematical problems	G.1.2.1.2 CC.2.3.HS.A.14	MP3
Determine if the dilatation of a figure exists	G.1.3.1.2 CC.2.3.HS.A.1	MP3
Find a scale factor	G.1.3.1.2 CC.2.3.HS.A.1	MP3
Draw a dilation of a figure	G.1.3.1.2 CC.2.3.HS.A.1	MP3
Graph a composition of a rigid motion and a dilation	G.1.3.1.2 CC.2.3.HS.A.1 CC.2.3.HS.A.2 CC.2.3.HS.A.4	MP3
Determine similarity	G.1.3.1.1 G.1.3.1.2 CC.2.3.HS.A.6	MP3
Establish the Angle-Angle (AA), Side-Side-Side (SSS) and Side- Angle-Side (SAS) Similarity Theorems	G.1.3.1.1 G.1.3.1.2 CC.2.3.HS.A.6	MP3
Determine if triangles are similar	G.1.3.1.1 G.1.3.1.2 CC.2.3.HS.A.6	MP3
Find lengths in similar triangles	G.1.3.1.1 G.1.3.1.2	MP3
Explore proportions from parallel lines in triangles	G.1.2.1.1 G.1.3.1.2	MP3
Find lengths in triangles using the Side-Splitter and Triangle Midsegment Theorems	G.1.2.1.1 G.1.3.1.2 CC.2.3.HS.A.3	MP3
Find a length in a diagram with three parallel lines using the Corollary to the Side-Splitter Theorem	CC.2.3.HS.A.3	MP3

Performance Indicator	PA Core Standard and/or Eligible Content	Marking Period Taught
Use the Triangle Angle Bisector Theorem	G.1.2.1.1 CC.2.3.HS.A.3	MP3
Use the Pythagorean Theorem and its converse to model and solve real-world and mathematical problems involving right triangles	G.2.1.1.1	MP3
Find the side lengths of 45-45-90 and 30-60-90 triangles	G.2.1.1.1	MP3
Apply special right triangle relationships to model and solve real-world and mathematical problems	G.2.1.1.1	MP3
Marking Period 3 Review and Assessment		MP3
 Review and demonstrate knowledge of Quadrilaterals and Other Polygons 		MP3
Review and demonstrate knowledge of Similarity		MP3
Review and demonstrate knowledge of Right Triangles		MP3
Identify trigonometric ratios: Sine (Sin), Cosine (Cos), Tangent (Tan)	G.2.1.1.2	MP4
Write trigonometric ratios: Sin, Cos, Tan	G.2.1.1.2	MP4
Find trigonometric ratios of special angles: 30, 45, 60	G.2.1.1.2	MP4
Express cosine and sine in terms of congruent complements	G.2.1.1.2	MP4
Use trigonometric ratios to model and solve real-world and mathematical problems to find distances	G.2.1.1.2 CC.2.3.HS.A.14	MP4
Use trigonometric inverses to model and solve real-world and mathematical problems to find angle measures	G.2.1.1.2 CC.2.3.HS.A.14	MP4
Identify angles of elevation and angles of depression	G.2.1.1.2	MP4
Use angles of elevation and angles of depression to model and solve real-world and mathematical problems	G.2.1.1.2 CC.2.3.HS.A.14	MP4
Find the area of a triangle using trigonometric functions to model and solve real-world and mathematical problems	G.2.1.1.2 CC.2.3.HS.A.14	MP4
Use properties of central angles and arc measures	G.1.1.1.2	MP4
Use properties of arc length and circumference	CC.2.3.HS.A.8	MP4
Apply arc length of circles to model and solve real-world and mathematical problems	G.1.1.1.2 CC.2.3.HS.A.8 CC.2.3.HS.A.14	MP4
Relate the area of a circle to the area of a sector	G.2.2.2.5	MP4
Find the area of a segment of a circle	G.2.2.2.5	MP4
Model and solve real-world and mathematical problems involving circles	G.1.1.1.2 G.2.2.2.5 CC.2.3.HS.A.8 CC.2.3.HS.A.14	MP4
Understand the properties of a tangent to a circle	G.1.1.1.1	MP4
Use tangents to model and solve real-world and mathematical problems	G.1.1.1.1 G.1.1.1.3	MP4

Performance Indicator	PA Core Standard and/or Eligible Content	Marking Period Taught
Find lengths of segments tangent to a circle	G.1.1.1.1	MP4
Find measures involving tangent lines	G.1.1.1.3	MP4
Use properties of central angles and chords	G.1.1.1.3	MP4
Use properties of arcs and chords	G.1.1.1.1 G.1.1.1.3	MP4
Use properties of chords equidistant from the center	G.1.1.1.1	MP4
Model and solve real-world and mathematical problems involving chords of circles	G.1.1.1.1 G.1.1.1.3 CC.2.3.HS.A.14	MP4
Use properties to relate inscribed angles to intercepted arcs	G.1.1.1.2	MP4
Use the Inscribed Angles Theorem and its corollaries	G.1.1.1.2 CC.2.3.HS.A.3	MP4
Explore angles formed by a tangent and a chord	G.1.1.1.3	MP4
Use arc measure to model and solve real-world and mathematical problems involving circles	G.1.1.1.2 G.1.1.1.3 CC.2.3.HS.A.14	MP4
Use properties of secants and angle measures	G.1.1.1.3	MP4
Use secants and tangents to model and solve real-world and mathematical problems	G.1.1.1.3 CC.2.3.HS.A.14	MP4
Use chord length relationships	G.1.1.1.3	MP4
Use segment relationships of circles to model and solve real- world and mathematical problems to find lengths	G.1.1.1.1 G.1.1.1.2 G.1.1.1.3 CC.2.3.HS.A.14	MP4
Apply Euler's Formula to a polyhedron	G.2.3.2.1 CC.2.3.HS.A.3 CC.2.3.HS.A.13	MP4
Describe a cross section of a polyhedron	G.2.3.1 CC.2.3.HS.A.13	MP4
Apply Cavalieri's Principle	G.2.3.1 CC.2.3.HS.A.3 CC.2.3.HS.A.13	MP4
Calculate the surface area of prisms, cylinders, cones, pyramids, and spheres.	G.2.3.1 G.2.3.1.1 CC.2.3.HS.A.13	MP4
Calculate the volume of prisms, cylinders, cones, pyramids, and spheres	G.2.3.1 G.2.3.1.2 CC.2.3.HS.A.13	MP4
Find the measurement of a missing length given the surface area or volume	G.2.3.1.3	MP4
Apply the concepts of surface area and volume of prisms, cylinders, cones, pyramids, and spheres to model and solve real-world and mathematical problems	G.2.3.1 CC.2.3.HS.A.3 CC.2.3.HS.A.13 CC.2.3.HS.A.14	MP4

Performance Indicator	PA Core Standard and/or Eligible Content	Marking Period Taught
Find the measure of a composite three-dimensional figure containing prisms, cylinders, cones, pyramids, and spheres	G.2.3.1.1 G.2.3.1.2 CC.2.3.HS.A.13	MP4
Marking Period 4 Review and Assessment		MP4
 Review and demonstrate knowledge of Trigonometry 		MP4
Review and demonstrate knowledge of Circles		MP4
 Review and demonstrate knowledge of Two- and Three- Dimensional Models 		MP4

PLANNED INSTRUCTION

ASSESSMENTS

PDE Academic Standards, Assessment Anchors, and Eligible Content: The teacher must be knowledgeable of the PDE Academic Standards, Assessment Anchors, and Eligible Content and incorporate them regularly into planned instruction.

Formative Assessments: The teacher will utilize a variety of assessment methods to conduct in-process evaluations of student learning.

Effective formative assessments for this course include: Suggested but not limited to:

- Pre-assessments of prior knowledge (e.g., Entrance cards or KWL chart)
- Bellringers/Problems of the Day (PODs)
- Discussions
- Exit ticket
- Teacher observations/Questioning
- Graphic organizers (e.g., Venn Diagrams, word mapping, webbing, KWL chart, etc.)
- Outlining
- Cooperative learning
- Written work
- Quizzes
- Oral response
- Self-evaluation
- Homework
- Summarizing
- Note-taking

Summative Assessments: The teacher will utilize a variety of assessment methods to evaluate student learning at the end of an instructional task, lesson, and/or unit.

Effective summative assessments for this course include: Suggested but not limited to:

- Performance assessment
- Chapter/unit tests
- Quizzes
- Marking period assessments
- Projects
- Student presentations