

RRGSD Remote Instruction Learning Plan

Dates: 05/10//21- 05/14/21

Statement of Goals and Objectives: <i>(Learning Targets in Student & Parent-Friendly Language)</i>	<ul style="list-style-type: none"> • Students will extend knowledge of congruent triangles to proving theorems of parallelograms. • Students will investigate properties of angles in circles. • Students will investigate properties of segments in circles. • Students will prove properties of the incenter, centroid, and circumcenter of triangles. • Students will explore radian measure as the ratio of circumference to length of the radius and compare it to degree measure of angles. • Students will discover the relationship of arc length to circumference and sector area to circle area given a central angle measure (in radians or degrees).. <p>Essential Questions:</p> <ul style="list-style-type: none"> • How can we use known properties of shapes to prove characteristics about triangles and quadrilaterals? • What relationships exist between angles, segments, and circles? • How can angles be measured in relation to the radius of a circle?
Topic(s)/Concept & NC Standard Course of Study: <i>Topic(s)/Concept and the correlating content standards addressed)</i>	<ul style="list-style-type: none"> • <u>NC.M3.G-CO.11</u>: Prove theorems about parallelograms. <ul style="list-style-type: none"> ○ Opposite sides of a parallelogram are congruent. ○ Opposite angles of a parallelogram are congruent. ○ Diagonals of a parallelogram bisect each other. ○ If the diagonals of a parallelogram are congruent, then the parallelogram is a rectangle. • <u>NC.M3.G-CO.14</u>: Prove geometric theorems. Apply properties, definitions, and theorems of two-dimensional figures to prove geometric theorems and solve problems. • <u>NC.M3.G-CO.10</u>: Verify experimentally properties of the centers of triangles (centroid, incenter, and circumcenter) • <u>NC.M3.G-C.2</u>: Understand and apply theorems about circles. <ul style="list-style-type: none"> ○ Understand and apply theorems about relationships with angles and circles, including central, inscribed and circumscribed angles. ○ Understand and apply theorems about relationships with line segments and circles including, radii, diameter, secants, tangents and chords. • <u>NC.M3.G-C.5</u>: Using similarity, demonstrate that the length of an arc, s, for a given central angle is proportional to the radius, r, of the circle. Define radian measure of the central angle as the ratio of the length of the arc to the radius of the circle, s/r. Find arc lengths and areas of sectors of circles. • <u>NC.M3.G-MG.1</u>: Apply geometric concepts in modeling situations. Apply geometric concepts in modeling situations Use geometric and algebraic concepts to solve problems in modeling situations:

Teacher Name: Sierra Hearp-Jordan

Subject: Math III

	<ul style="list-style-type: none">○ Use geometric shapes, their measures, and their properties, to model real-life objects.○ Use geometric formulas and algebraic functions to model relationships.○ Apply concepts of density based on area and volume.○ Apply geometric concepts to solve design and optimization problems.
Social-Emotional Focus	Student can sign up on google calendar located under resources tab on google classroom

Daily Agenda: Including assignments and due dates

Date:	Virtual/Remote Agenda	JacketTime Opportunity Agenda
Monday	Students will meet with teacher to discuss topics below: <ul style="list-style-type: none">● Interior Angles and Exterior angles of polygons	Jacket Time A or B
Tuesday	Students will meet with teacher to discuss topics below: <ul style="list-style-type: none">● Parallelograms Properties	Jacket Time B
Wednesday	Students will meet with teacher to discuss topics below: <ul style="list-style-type: none">● Parallelogram Proofs	Closed
Thursday	Students will meet with teacher to discuss topics below: <ul style="list-style-type: none">● Parallelogram Proofs	Jacket Time B
Friday	Students will meet with teacher to discuss topics below: <ul style="list-style-type: none">● REVIEW Parallelograms	Jacket Time A or B

Assessment:

How will I be assessing my students throughout this week?

Formative Assessment(s)	Quizzes, LiveWorksheets,Mastery Connect
Summative Assessment(s)	Masteryconnect Assessment
How will I know my students have mastered the content from this week?	By reviewing the data from the quizzes and tests that were assigned I will be able to tell mastery/non mastery

Additional Resources:

If a student needs additional support, below are resources that will assist with the material being taught.

Topic/Concept	Website/Location resource can be found
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Teacher Name: Sierra Hearp-Jordan

Subject: Math III

Math III	Khan Academy Symbaloo (on google classroom under resources) Teacher recorded videos on google classroom
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