HIGHLANDS HIGH SCHOOL
GEOMETRY PACING GUIDE

GEOMETRY	GEOMETRY
SAS MODULE 1 *Congruence, Proof, and Constructions* **(Suggested Timeline: 7 weeks)**	**CC.2.3.HS.A.1** **Use geometric figures and their properties to represent transformations in the plane.**
	ASSESSMENT
	CC.2.3.HS.A.2 **Apply rigid transformations to determine and explain congruence.**
	ASSESSMENT
	CC.2.3.HS.A.3 **Verify and apply geometric theorems as they relate to geometric figures.**
	ASSESSMENT
	CC.2.3.HS.A.4 **Apply the concept of congruence to create geometric constructions.**
	ASSESSMENT _____
	CC.2.3.HS.A.5 **Create justifications based on transformations to establish similarity of plane figures.**

	ASSESSMENT _____
	CC.2.3.HS.A.6 **Verify and apply theorems involving similarity as they relate to plane figures.**
	ASSESSMENT
	CC.2.3.HS.A.11 **Apply coordinate geometry to prove simple geometric theorems algebraically.**
	ASSESSMENT
SAS MODULE 2 *Similarity, Proof, and Trigonometry* **(Suggested Timeline: 7 weeks)**	**CC.2.3.HS.A.5** **Create justifications based on transformations to establish similarity of plane figures.**
	ASSESSMENT
	CC.2.3.HS.A.6 **Verify and apply theorems involving similarity as they relate to plane figures.**
	ASSESSMENT
	CC.2.3.HS.A.7 **Apply trigonometric ratios to solve problems involving right triangles.**
	ASSESSMENT
	CC.2.3.HS.A.14

	Apply geometric concepts to model and solve real world problems.
	ASSESSMENT

	Numbers and Operations	Geometry
SAS MODULE 3 ***Extending to Three Dimensions*** **(Suggested Timeline: 6 weeks)**	**CC.2.1.HS.F.2** **Apply properties of rational and irrational numbers to solve real world or mathematical problems.**	**CC.2.3.HS.A.12** **Explain volume formulas and use them to solve problems.**
	ASSESSMENT	ASSESSMENT
	CC.2.1.HS.F.4 **Use units as a way to understand problems and to guide the solution of multi-step problems.**	**CC.2.3.HS.A.13** **Analyze relationships between two-dimensional and three-dimensional objects.**
	ASSESSMENT	ASSESSMENT
		CC.2.3.HS.A.14 **Apply geometric concepts to model and solve real world problems.**
		ASSESSMENT

SAS MODULE 4 **(Suggested Timeline: 6 weeks)** ***Connecting Algebra and Geometry Through Coordinates***	**CC.2.1.HS.F.3** **Apply quantitative reasoning to choose and Interpret units and scales in formulas, graphs and data displays.**	**CC.2.3.HS.A.1** **Use geometric figures and their properties to represent transformations in the plane.**
	ASSESSMENT	ASSESSMENT
		CC.2.3.HS.A.11 **Apply coordinate geometry to prove simple geometric theorems algebraically.**
		ASSESSMENT
		CC.2.3.HS.A.5 **Create justifications based on transformations to establish similarity of plane figures.**
		ASSESSMENT

	GEOMETRY
SAS MODULE 5 ***Circles with and without coordinates*** **(Suggested Timeline: 7 weeks)**	**CC.2.3.HS.A.8** **Apply geometric theorems to verify properties of circles.**
	ASSESSMENT
	CC.2.3.HS.A.9 **Extend the concept of similarity to determine arc lengths and areas of sectors of circles.**
	ASSESSMENT
	CC.2.3.HS.A.10 **Translate between the geometric description and the equation for a conic section.**

	ASSESSMENT
	CC.2.3.HS.A.11 **Apply coordinate geometry to prove simple geometric theorems algebraically.**
	ASSESSMENT

SAS MODULE 6 *Applications of Probability* **(Suggested Timeline: 4 weeks)**	**PROBABILITY AND STATISTICS**
	CC.2.4.HS.B.6 **Use the concepts of independence and conditional probability to interpret data.**
	ASSESSMENT
	CC.2.4.HS.B.7 **Apply the rules of probability to compute probabilities of compound events in a uniform probability model.**
	ASSESSMENT
	CC.2.4.HS.B.4 **Recognize and evaluate random processes underlying statistical experiments.**

	ASSESSMENT
	CC.2.4.HS.B.5 **Make inferences and justify conclusions based on sample surveys, experiments, and observational studies.**
	ASSESSMENT