Geometry Semester 1							
Week (dates or numbers)	Standards (NVACS) Both academic and practice standards/Essential Skills/Objectives	<u>Lesson (Using</u> <u>Illustrative</u> <u>Mathematics</u> <u>Curriculum)</u>	Activities	Assessments			
Week 1	-HSG-CO.A.5 Given a geometric figure and a rotation, reflection, or translation, draw the transformed figure using, e.g., graph paper, tracing paper, or geometry software. Specify a sequence of transformations that will carry a given figure onto another.	Geo. 1.10	1. Daily Warm-ups 2. Student Lecture Notes in class throughout the week (M-Th) 3. Extra Practice/Homework assigned on Monday, turned in on Thursday prior to quiz/cool down and reviewed on following Monday	1. Weekly Quiz/Cool Down Thursday (15 minutes before class ends) 2. Friday Check-Ins (Check for understanding question taken from weekly notes.)			
Week 2	-HSG-CO.A.3 Given a rectangle, parallelogram, trapezoid, or regular polygon, describes the rotations and reflections that carry it onto itself.	Geo. 1.15	 Daily Warm-ups Student Lecture Notes in class throughout the week (M-Th) Extra Practice/Homework assigned on Monday, turned in on Thursday prior to quiz/cool down and reviewed on following Monday 	1. Weekly Quiz/Cool Down Thursday (15 minutes before class ends) 2. Friday Check-Ins (Check for understanding question taken from weekly notes.)			
Week 3	-HSG-CO.C.10 Prove theorems about triangles. Theorems include: measures of interior angles of a triangle sum to 180°; base angles of isosceles triangles are congruent; the segment joining midpoints of two sides of a triangle is parallel to the third side and half the length; the medians of a triangle meet at a point. -HSG-CO.C.11 Prove theorems about parallelograms. Theorems include: opposite sides are congruent, opposite angles are congruent, the diagonals of a parallelogram bisect each other, and conversely, rectangles are parallelograms with congruent diagonals	Geo. 2.6	 Daily Warm-ups Student Lecture Notes in class throughout the week (M-Th) Extra Practice/Homework assigned on Monday, turned in on Thursday prior to quiz/cool down and reviewed on following Monday 	1. Weekly Quiz/Cool Down Thursday (15 minutes before class ends) 2. Friday Check-Ins (Check for understanding question taken from weekly notes.)			
Week 4	-HSG-SRT.A.2 Given two figures, use the definition of similarity in terms of similarity transformations to decide if they are similar; explain using similarity transformations the meaning of similarity for triangles as the equality of all corresponding pairs of angles and the proportionality of all corresponding pairs of sides. -HSG-SRT.B.5 Use congruence and similarity criteria for triangles to solve problems and to prove relationships in geometric figures.	Geo. 3.6	1. Daily Warm-ups 2. Student Lecture Notes in class throughout the week (M-Th) 3. Extra Practice/Homework assigned on Monday, turned in on Thursday prior to quiz/cool down and reviewed on following Monday	1. Weekly Quiz/Cool Down Thursday (15 minutes before class ends) 2. Friday Check-Ins (Check for understanding question taken from weekly notes.)			
Week 5	-HSG-SRT.B.5 Use congruence and similarity criteria for triangles to solve problems and to prove relationships in geometric figures.	Geo. 3.12	1. Daily Warm-ups 2. Student Lecture Notes in class throughout the week (M-Th) 3. Extra Practice/Homework assigned on Monday, turned in on Thursday prior to quiz/cool down and reviewed on following Monday	1. Weekly Quiz/Cool Down Thursday (15 minutes before class ends) 2. Friday Check-Ins (Check for understanding question taken from weekly notes.)			
Week 6	-HSG-SRT.B.5 Use congruence and similarity criteria for triangles to solve problems and to prove relationships in geometric figures.	Geo. 4.1	1. Daily Warm-ups 2. Student Lecture Notes in class throughout the week (M-Th) 3. Extra Practice/Homework assigned on Monday, turned in on Thursday prior to quiz/cool down and reviewed on following Monday	1. Weekly Quiz/Cool Down Thursday (15 minutes before class ends) 2. Friday Check-Ins (Check for understanding question taken from weekly notes.)			
Week 7	-HSG-SRT.C.7 Explain and use the relationship between the sine and cosine of complementary angles.	Geo. 4.8	1. Daily Warm-ups 2. Student Lecture Notes in class throughout the week (M-Th) 3. Extra Practice/Homework assigned on Monday, turned in on Thursday prior to quiz/cool down and reviewed on following Monday	1. Weekly Quiz/Cool Down Thursday (15 minutes before class ends) 2. Friday Check-Ins (Check for understanding question taken from weekly notes.)			
Week 8	-HSG-SRT.C.8 Use trigonometric ratios and the Pythagorean Theorem to solve right triangles in applied problems.★	Geo. 4.10	1. Daily Warm-ups 2. Student Lecture Notes in class throughout the week (M-Th) 3. Extra Practice/Homework assigned on Monday, turned in on Thursday prior to quiz/cool down and reviewed on following Monday	1. Weekly Quiz/Cool Down Thursday (15 minutes before class ends) 2. Friday Check-Ins (Check for understanding question taken from weekly notes.)			
Week 9	Midterm/Final Reveiw		1. Daily Warm Up 2. Monday H/W Reveiw 3. Tuesday/Wednesday Exam Reveiw	1. Exam 2. ACT/Brilliant Practice			

Geometry Semester 2							
Week (dates or numbers)	Standards (NVACS) Both academic and practice standards/Essential Skills/Objectives	<u>Lesson (Using</u> <u>Illustrative</u> <u>Mathematics</u> <u>Curriculum)</u>	Activities	Assessments			
Week 1	-HSG-SRT.C.8 Use trigonometric ratios and the Pythagorean Theorem to solve right triangles in applied problems.★ -HSG-GMD.A.3 Use volume formulas for cylinders, pyramids, cones, and spheres to solve problems.★	Geo. 5.11	1. Daily Warm-ups 2. Student Lecture Notes in class throughout the week (M-Th) 3. Extra Practice/Homework assigned on Monday, turned in on Thursday prior to quiz/cool down and reviewed on following Monday	1. Weekly Quiz/Cool Down Thursday (15 minutes before class ends) 2. Friday Check-Ins (Check for understanding question taken from weekly notes.)			
Week 2	-HSG.GMD.A.1 Give an informal argument for the formulas for the circumference of a circle, area of a circle, volume of a cylinder, pyramid, and cone. Use dissection arguments, Cavalieri's principle, and informal limit arguments.	Geo. 5.13	 Daily Warm-ups Student Lecture Notes in class throughout the week (M-Th) Extra Practice/Homework assigned on Monday, turned in on Thursday prior to quiz/cool down and reviewed on following Monday 	1. Weekly Quiz/Cool Down Thursday (15 minutes before class ends) 2. Friday Check-Ins (Check for understanding question taken from weekly notes.)			
Week 3	 -HSG-C.A.2 Identify and describe relationships among inscribed angles, radii, and chords. Include the relationship between central, inscribed, and circumscribed angles; inscribed angles on a diameter are right angles; the radius of a circle is perpendicular to the tangent where the radius intersects the circle. -HSG-GPE.B.4 Use coordinates to prove simple geometric theorems algebraically. For example, prove or disprove that a figure defined by four given points in the coordinate plane is a rectangle; prove or disprove that the point (1, √3) lies on the circle centered at the origin and containing the point (0, 2). -HSG-GPE.B.5 Prove the slope criteria for parallel and perpendicular lines and use them to solve geometric problems (e.g., find the equation of a line parallel or perpendicular to a given line that passes through a given point). -HSG-GPE.B.7 Use coordinates to compute perimeters of polygons and areas of triangles and rectangles, e. g., using the distance formula.★ 	Geo. 6.14	 Daily Warm-ups Student Lecture Notes in class throughout the week (M-Th) Extra Practice/Homework assigned on Monday, turned in on Thursday prior to quiz/cool down and reviewed on following Monday 	 Weekly Quiz/Cool Down Thursday (15 minutes before class ends) Friday Check-Ins (Check for understanding question taken from weekly notes.) 			
Week 4	-HSG-C.A.3 Construct the inscribed and circumscribed circles of a triangle, and prove properties of angles for a quadrilateral inscribed in a circle.	Geo. 7.4	1. Daily Warm-ups 2. Student Lecture Notes in class throughout the week (M-Th) 3. Extra Practice/Homework assigned on Monday, turned in on Thursday prior to quiz/cool down and reviewed on following Monday	1. Weekly Quiz/Cool Down Thursday (15 minutes before class ends) 2. Friday Check-Ins (Check for understanding question taken from weekly notes.)			
Week 5	-S-CP.A.2 Understand that two events A and B are independent if the probability of A and B occurring together is the product of their probabilities, and use this characterization to determine if they are independent.	Geo. 8.4	 Daily Warm-ups Student Lecture Notes in class throughout the week (M-Th) Extra Practice/Homework assigned on Monday, turned in on Thursday prior to quiz/cool down and reviewed on following Monday 	1. Weekly Quiz/Cool Down Thursday (15 minutes before class ends) 2. Friday Check-Ins (Check for understanding question taken from weekly notes.)			
Week 6	-S-CP.A.3 Understand the conditional probability of A given B as P(A and B)/P(B), and interpret independence of A and B as saying that the conditional probability of A given B is the same as the probability of A, and the conditional probability of B given A is the same as the probability of B.	Geo. 8.6	1. Daily Warm-ups 2. Student Lecture Notes in class throughout the week (M-Th) 3. Extra Practice/Homework assigned on Monday, turned in on Thursday prior to quiz/cool down and reviewed on following Monday	1. Weekly Quiz/Cool Down Thursday (15 minutes before class ends) 2. Friday Check-Ins (Check for understanding question taken from weekly notes.)			
Week 7	-S-CP.A.4 Construct and interpret two-way frequency tables of data when two categories are associated with each object being classified. Use the two-way table as a sample space to decide if events are independent and to approximate conditional probabilities. For example, collect data from a random sample of students in your school on their favorite subject among math, science, and English. Estimate the probability that a randomly selected student from your school will favor science given that the student is in tenth grade. Do the same for other subjects and compare the results.	Geo. 8.9	 Daily Warm-ups Student Lecture Notes in class throughout the week (M-Th) Extra Practice/Homework assigned on Monday, turned in on Thursday prior to quiz/cool down and reviewed on following Monday 	1. Weekly Quiz/Cool Down Thursday (15 minutes before class ends) 2. Friday Check-Ins (Check for understanding question taken from weekly notes.)			
Week 8	S-CP.B.7 Apply the Addition Rule, P (A or B) = P (A) + P (B) – P (A and B), and interpret the answer in terms of the model.	Geo. 8.11	1. Daily Warm-ups 2. Student Lecture Notes in class throughout the week (M-Th) 3. Extra Practice/Homework assigned on Monday, turned in on Thursday prior to quiz/cool down and reviewed on following Monday	1. Weekly Quiz/Cool Down Thursday (15 minutes before class ends) 2. Friday Check-Ins (Check for understanding question taken from weekly notes.)			

Week 9	Midterm/Final Reveiw	1. Daily Warm Ups 2. Monday H/W Reveiw 3. Tuesday/Wednesday Exam Reveiw	<u>1. Exam</u> 2. ACT/Brilliant Practice