

Week (dates or numbers)	Standards (NVACS) Both academic and practice standards/Essential Skills/Objectives	Lesson (Using Illustrative Mathematics Curriculum)	Activities	Assessments
Trigonometry Semester 1				
Week 1	-HSF-TF.A Extend the domain of trigonometric functions using the unit circle. -HSF-TF.C Prove and apply trigonometric identities.	Alg2.6.1	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 2	-HSF-TF.A.2 Explain how the unit circle in the coordinate plane enables the extension of trigonometric functions to all real numbers, interpreted as radian measures of angles traversed counterclockwise around the unit circle. -HSF-TF.C.8 Prove the Pythagorean identity using sin, cos, and tan properties	Alg2.6.2	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 3	-HSF-TF.A Extend the domain of trigonometric functions using the unit circle. -HSF-TF.A.1 Understand radian measure of an angle as the length of the arc on the unit circle subtended by the angle. -HSF-TF.A.2 Explain how the unit circle in the coordinate plane enables the extension of trigonometric functions to all real numbers, interpreted as radian measures of angles traversed counterclockwise around the unit circle. -HSF-TF.C.8 Prove the Pythagorean identity using sin, cos, and tan properties	Alg2.6.3	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 4	-HSF-TF.A Extend the domain of trigonometric functions using the unit circle. -HSF-TF.A.1 Understand radian measure of an angle as the length of the arc on the unit circle subtended by the angle. -HSF-TF.A.2 Explain how the unit circle in the coordinate plane enables the extension of trigonometric functions to all real numbers, interpreted as radian measures of angles traversed counterclockwise around the unit circle.	Alg2.6.4	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	-HSF-TF.A Extend the domain of trigonometric functions using the unit circle. -HSF-TF.A.2 Explain how the unit circle in the coordinate plane enables the extension of trigonometric functions to all real numbers, interpreted as radian measures of angles traversed counterclockwise around the unit circle. -HSF-TF.C.8 Prove the Pythagorean identity using sin, cos, and tan properties	Alg2.6.5	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	-HSF-TF.A.2 Explain how the unit circle in the coordinate plane enables the extension of trigonometric functions to all real numbers, interpreted as radian measures of angles traversed counterclockwise around the unit circle. -HSF-TF.C.8 Prove the Pythagorean identity using sin, cos, and tan properties	Alg2.6.6	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	-HSF-TF.B Model periodic phenomena with trigonometric functions. -HSF-TF.B.5 Choose trigonometric functions to model periodic phenomena with specified amplitude, frequency, and midline.	Alg2.6.7	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	<p>-HSF-IF.B.4 For a function that models a relationship between two quantities, interpret key features of graphs and tables in terms of the quantities, and sketch graphs showing key features given a verbal description of the relationship. Key features include: intercepts; intervals where the function is increasing, decreasing, positive, or negative; relative maximums and minimums; symmetries; end behavior; and periodicity.</p> <p>-HSF-IF.C Analyze functions using different representations.</p> <p>-HSF-TF.B Model periodic phenomena with trigonometric functions.</p>	Alg2.6.8	<ol style="list-style-type: none"> 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 	<ol style="list-style-type: none"> Weekly Quiz/Cool Down Thursday (15 minutes before class ends) Friday Check-Ins (Check for understanding question taken from weekly notes.)
Week 9	Midterm/Final Review		<ol style="list-style-type: none"> Daily Warm Up Monday H/W Review Tuesday/Wednesday Exam Review 	<ol style="list-style-type: none"> Exam ACT/Brilliant Practice
Trigonometry Semester 2				
Week 1	<p>-HSF-IF.C.7 Graph functions expressed symbolically and show key features of the graph, by hand in simple cases and using technology for more complicated cases.</p> <p>-HSF-TF.A Extend the domain of trigonometric functions using the unit circle.</p>	Alg2.6.9	<ol style="list-style-type: none"> 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 	<ol style="list-style-type: none"> Weekly Quiz/Cool Down Thursday (15 minutes before class ends) Friday Check-Ins (Check for understanding question taken from weekly notes.)
Week 2	<p>-HSF-TF.A.2 Explain how the unit circle in the coordinate plane enables the extension of trigonometric functions to all real numbers, interpreted as radian measures of angles traversed counterclockwise around the unit circle.</p> <p>-HSF-TF.B Model periodic phenomena with trigonometric functions.</p>	Alg2.6.10	<ol style="list-style-type: none"> 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 	<ol style="list-style-type: none"> Weekly Quiz/Cool Down Thursday (15 minutes before class ends) Friday Check-Ins (Check for understanding question taken from weekly notes.)
Week 3	<p>-HSF-TF.A.2 Explain how the unit circle in the coordinate plane enables the extension of trigonometric functions to all real numbers, interpreted as radian measures of angles traversed counterclockwise around the unit circle.</p>	Alg2.6.11	<ol style="list-style-type: none"> 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 	<ol style="list-style-type: none"> Weekly Quiz/Cool Down Thursday (15 minutes before class ends) Friday Check-Ins (Check for understanding question taken from weekly notes.)
Week 4	<p>HSF-IF.C.7 Graph functions expressed symbolically and show key features of the graph, by hand in simple cases and using technology for more complicated cases.</p> <p>-HSF-TF.A.2 Explain how the unit circle in the coordinate plane enables the extension of trigonometric functions to all real numbers, interpreted as radian measures of angles traversed counterclockwise around the unit circle.</p>	Alg2.6.12	<ol style="list-style-type: none"> 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 	<ol style="list-style-type: none"> Weekly Quiz/Cool Down Thursday (15 minutes before class ends) Friday Check-Ins (Check for understanding question taken from weekly notes.)
Week 5	<p>-HSF-IF.C.7.e Graph exponential and logarithmic functions, showing intercepts and end behavior, and trigonometric functions, showing period, midline, and amplitude.</p> <p>-HSF-TF.B.5 Choose trigonometric functions to model periodic phenomena with specified amplitude, frequency, and midline.</p>	Alg2.6.13	<ol style="list-style-type: none"> 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 	<ol style="list-style-type: none"> Weekly Quiz/Cool Down Thursday (15 minutes before class ends) Friday Check-Ins (Check for understanding question taken from weekly notes.)
Week 6	<p>-HSF-IF.C.7.e Graph exponential and logarithmic functions, showing intercepts and end behavior, and trigonometric functions, showing period, midline, and amplitude.</p> <p>-HSF-TF.B Model periodic phenomena with trigonometric functions.</p>	Alg2.6.14	<ol style="list-style-type: none"> 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 	<ol style="list-style-type: none"> Weekly Quiz/Cool Down Thursday (15 minutes before class ends) Friday Check-Ins (Check for understanding question taken from weekly notes.)

<p>Week 7</p>	<p>-HSF-BF.B.3 Identify the effect on the graph of replacing $f(x)$ by $f(x) + k$, $kf(x)$, $f(kx)$, and $f(x+k)$ for specific values of k (both positive and negative); find the value of k given the graphs. Experiment with cases and illustrate an explanation of the effects on the graph using technology. Include recognizing even and odd functions from their graphs and algebraic expressions for them.</p> <p>-HSF-IF.B.4 For a function that models a relationship between two quantities, interpret key features of graphs and tables in terms of the quantities, and sketch graphs showing key features given a verbal description of the relationship. Key features include: intercepts; intervals where the function is increasing, decreasing, positive, or negative; relative maximums and minimums; symmetries; end behavior; and periodicity.</p> <p>-HSF-IF.C.7.e Graph exponential and logarithmic functions, showing intercepts and end behavior, and trigonometric functions, showing period, midline, and amplitude.</p>	<p>Alg2.6.15</p>	<ol style="list-style-type: none"> 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 	<ol style="list-style-type: none"> 1. Weekly Quiz/Cool Down Thursday (15 minutes before class ends) 2. Friday Check-Ins (Check for understanding question taken from weekly notes.)
<p>Week 8</p>	<p>-HSF-IF.C.7.e Graph exponential and logarithmic functions, showing intercepts and end behavior, and trigonometric functions, showing period, midline, and amplitude.</p> <p>-HSF-TF.B Model periodic phenomena with trigonometric functions.</p> <p>-HSF-TF.B.5 Choose trigonometric functions to model periodic phenomena with specified amplitude, frequency, and midline.</p>	<p>Alg2.6.16</p>	<ol style="list-style-type: none"> 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 	<ol style="list-style-type: none"> 1. Weekly Quiz/Cool Down Thursday (15 minutes before class ends) 2. Friday Check-Ins (Check for understanding question taken from weekly notes.)
<p>Week 9</p>	<p>Midterm/Final Reveiw</p>		<ol style="list-style-type: none"> 1. Daily Warm Ups 2. Monday H/W Reveiw 3. Tuesday/Wednesday Exam Reveiw 	<ol style="list-style-type: none"> 1. Exam 2. ACT/Brilliant Practice