<table>
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<th>LESSON PLANS</th>
<th>WEEK OF: November 18, 2019</th>
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<td>Third</td>
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<tr>
<td>Subject</td>
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### Monday
**Objective**
- Lesson 4-5 Solving $ax+b<cx+d$
- Chapter 4 Review
- Lesson 4-5 The Sine and Cosine Function
- Lesson 4-7 Transformations and Matrices

**Activity**
- Review all concepts of Chapter 4
- Review all concepts of Chapter 4
- Find values of $\sin$ and $\cos$.
- Add definitions of the $\sin$ and $\cos$ function.
- Draw and interpret graphs of the parent $\sin$ and $\cos$ functions in degrees or radians.
- Recognize prop. of matrix operations.
- Relate transformations to matrices, and vice versa.
- Graph figures and their transformation images.

**Assign**
- p. 213-215 (2-20)
- p. 249-251 (2-16)
- p. 265-268 (2-24)

### Tuesday
**Objective**
- Lesson 4-6 Situations That Always or Never Happen
- Chapter 4 Test
- Lesson 4-6 The Tangent Function and Periodicity
- Review of Lesson 4 through 7

**Activity**
- Recognize when sentences have no solution or every real number as a solution.
- Use graphs to model sentences that have no solutions or every real number as a solution.
- Apply the definition of the tangent function.
- Apply theorems of $\sin$, $\cos$, and $\tan$.
- Draw or interpret graphs of the parent $\tan$ function in degrees or radians.
- Review of concepts in lessons 4 through 7

**Assign**
- p. 218-220 (2-18)
- Test
- p. 255-256 (2-20)
- Worksheet 4-7

### Wednesday
**Objective**
- Review of Lesson 4-6
- Lesson 5-1 When Are Figures Congruent
- Review of Lessons 4-6
- Chapter 4 Quiz (sec. 4-7)

**Activity**
- Review concepts from lessons 4 through 6
- Review concepts from lessons 4 through 6
- Review concepts from lessons 4 through 6
- Review concepts from lessons 4 through 6

**Assign**
- Worksheets 4-6
- Worksheets 1-3
- Worksheet 6 and Periodicity
- Quiz

### Thursday
**Objective**
- Chapter 4 Quiz over sections 4 through 6
- Lesson 5-2 Corresponding Parts of Congruent Figures
- Chapter 4 Quiz (sec. 4-6)
- Lesson 4-8 Matrices for Rotations

**Activity**
- Identify and determine measures of parts of congruent figures.
- Make and justify conclusions about congruent figures.
- Recognize relationships between figures and their rotation images.
- Relate certain rotations to matrices, and vice versa.
- Graph figures and their transformation images.

**Assign**
- Quiz (sec. 4-6)
- p. 260-262 (2-22)
- Quiz (sec. 4-6)
- p. 271-273 (2-14)

### Friday
**Objective**
- Lesson 4-7 Equivalent Formulas
- Lesson 5-3 One-Step Congruence Proofs
- Lesson 4-7 Scale-Change Images of Trigonometric Functions
- Lesson 4-9 Rotations and Perpendicular Lines

**Activity**
- Find Equivalent forms of formulas and equations.
- Make and justify conclusions about congruent figures.
- Identify the amplitude, period, frequency, phase shifts of periodic functions.
- Write and solve equations for phenomena described by trigonometric functions.
- Graph and describe transformation images of graphs of trigonometric functions.
- Determine equations of lines perpendicular to given lines.
- Recognize relationships between figures and their transformations images.
- Given their slopes, determine whether lines are perpendicular or each other.

**Assign**
- p. 224-226 (2-22)
- p. 266-268 (2-20)
- p. 261-262 (2-22)
- p. 276-278 (2-26)