# Pacing Chart

<table>
<thead>
<tr>
<th>#</th>
<th>Student Learning Objective</th>
<th>NJSLS</th>
<th>Resources: Pre-Calculus with Limits</th>
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</thead>
</table>
| 1  | • Use sum and difference formula to evaluate trigonometric identities, and solve trigonometric equations.  
• Use multiple –angle formulas to rewrite and evaluate trigonometric functions.  
• Use power reducing formulas to rewrite and evaluate trigonometric functions.  
• Use product to sum and sum to product formulas to rewrite and evaluate trigonometric functions. | F.TF.B.7  
F.TF.C.9  
G.SRT.D.9 | 5.3, 5.4, 5.5 |
| 2  | • Use the law of Sine to solve oblique triangles, find their areas while modeling and solving real life problems.  
• Use the law of Cosine to solve oblique triangles, find their areas while modeling and solving real life problems. | G.SRT.D.10  
G.SRT.D.11 | 6.1, 6.2 |
| 3 | Represent vectors as directed line segments.  
   Perform basic vector operations and represent vectors graphically.  
   Find the direction angles of vectors.  
   Write vectors as the sum of two vector components.  
   Write trigonometric forms of complex numbers.  
   Multiply and divide complex numbers written in trigonometric form.  
   Use DeMoivre’s Theorem to find powers of complex numbers.  
   Use vectors to model and solve real-life problems. | N.VM.A.1  
N.VM.A.2  
N.VM.A.3  
N.VM.B.4  
N.VM.B.5 | 6.3, 6.4, 6.5, 6.6 | 10/3/2018 |