

## Mathematics Sequence of Units - Grades 10 ,11&12 2016-2017

TRIMESTER TWO	
Grade 12	
Get Ready-Teacher	
2 Jan - 5 Jan	
8 Jan - 12 Jan	<p>(1-1) المتطابقات المثلثية - (2-1) اثبات صحة المتطابقات المثلثية</p> <p><b>ML3.PA4.1</b> Identify and use basic trig identities to find trig values</p> <p><b>ML3.PA4.2</b> Use basic trig identities to simplify and rewrite trig expressions</p> <p><b>ML3.PA4.3</b> Verify trig identities</p> <p><b>ML3.PA4.4</b> Determine whether equations are identities</p>
15 Jan - 19 Jan	<p>(1-3) المتطابقات المثلثية للمجموع والفرق - اختبار - (1-4) المتطابقات المثلثية لضعف الزاوية ونصفها</p> <p><b>ML3.PA4.5</b> Use sum and difference identities to evaluate trig functions</p> <p><b>ML3.PA4.6</b> Use sum and difference identities to solve trig equations</p> <p><b>ML3.PA4.7</b> Use double angle, power-reducing, and half-angle identities to evaluate trig expressions and solve trig</p> <p><b>ML3.PA4.8</b> Use product-to-sum identities to evaluate trig expressions and solve trig equations</p>
22 Jan - 26 Jan	<p>(1-5) حل المعادلات المثلثية - اختبار</p> <p><b>ML3.PA4.9</b> Solve trigonometric equations</p> <p><b>ML3.PA4.10</b> Identify extraneous solutions when solving trigonometric equations</p>
29 Jan - 2 Feb	<p>(2-1) القطوع المكافئة - (2-2) القطوع الناقصة والدوائر</p> <p><b>ML3.PA5.1</b> Analyse and graph equations of parabolas</p> <p><b>ML3.PA5.2</b> Write equations of parabolas</p> <p><b>ML3.PA5.3</b> Analyse and graph equations of ellipses and circles</p> <p><b>ML3.PA5.4</b> Use equations to identify ellipses and circles</p>
5 Feb - 9 Feb	<p>(2-3) القطوع الزائدة - (2-4) تحديد أنواع القطوع المخروطية - اختبار</p> <p><b>ML3.PA5.5</b> Analyse and graph equations of hyperbolas</p> <p><b>ML3.PA5.6</b> Use equations to identify hyperbolas</p> <p><b>ML3.PA5.7</b> Use equations to identify types of conic sections</p> <p><b>ML3.PA5.8</b> Write equations of conic sections after rotation of the axes</p> <p><b>ML3.PA5.9</b> Graph parametric equations</p> <p><b>ML3.PA5.10</b> Solve problems related to the motion of projectiles</p>
12 Feb - 16 Feb	<p>(3-1) مقدمة في المتجهات - (3-2) المتجهات في المستوى الإحداثي</p> <p><b>ML3.PA6.1</b> Represent and operate with vectors geometrically</p> <p><b>ML3.PA6.2</b> Solve vector problems, and resolve vectors into their rectangular components</p> <p><b>ML3.PA6.3</b> Represent and operate with vectors in the coordinate plane</p> <p><b>ML3.PA6.4</b> Write a vector as a linear combination of unit vectors</p>
19 Feb - 23 Feb	<p>(3-3) الضرب الداخلي - (3-4) المتجهات في الفضاء الثلاثي الأبعاد - اختبار</p> <p><b>ML3.PA6.5</b> Find the dot product of two vectors, and use the dot product to find the angle between them</p> <p><b>ML3.PA6.6</b> Plot points and vectors in the three-dimensional coordinate system</p> <p><b>ML3.PA6.7</b> Express algebraically and operate with vectors in space</p>
26 Feb - 2 Mar	<p>(3-5) الضرب الداخلي والضرب الاتجاهي للمتجهات في الفضاء - اختبار</p> <p><b>ML3.PA6.8</b> Find dot products of and angles between vectors in space</p> <p><b>ML3.PA6.9</b> Find cross products of vectors in space, and use cross products to find area and volume</p>
5 Mar - 9 Mar	
12 - 16 Mar	EXAMS
19 - 23 Mar	EXAMS & EMSA