



Further  
Education,  
Training or  
Employment

Revision  
Programme

Further Kinematics

# Time to Revise

$$s = ut + \frac{at^2}{2}$$

Projectiles

Applications of Forces

Conditional Probability

The Normal Distribution

Lent Term  
2

Forces and Friction

Moments

$$s = vt - \frac{at^2}{2}$$

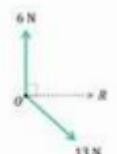
Regression, correlation and hypothesis testing

$$s^2 = u^2 + 2as$$

Forces and Motion 1

Correlation

Probability



Variable Acceleration

Hypothesis testing

Lent  
Term 1

Representation  
of Data

Constant Acceleration

Modelling in Mechanics

$$v = at + u$$

Pentecost  
Term 1

Statistical distributions

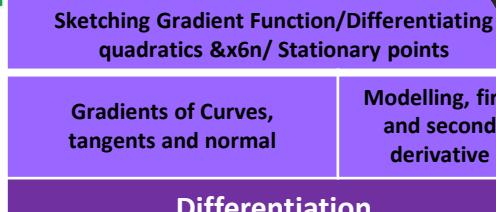
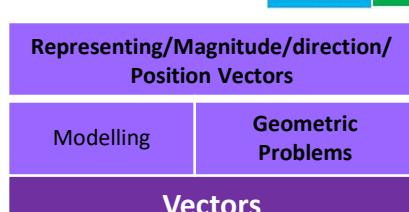
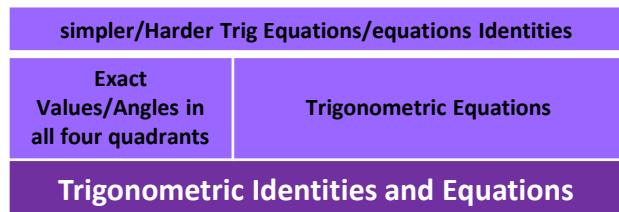
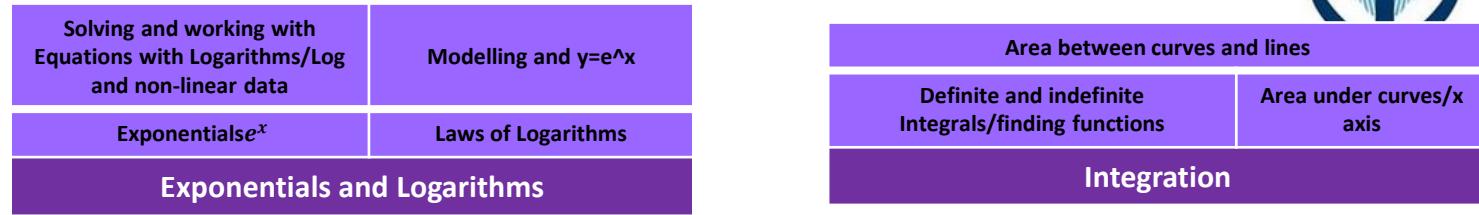
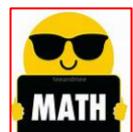


Measures of Location and Spread

Data collection

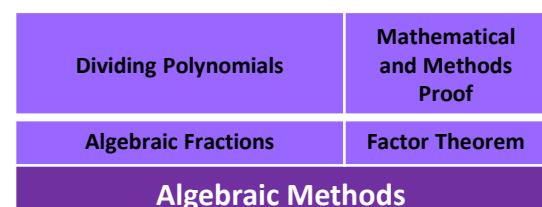
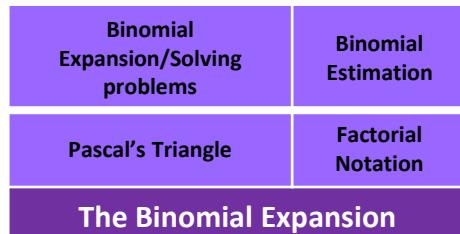
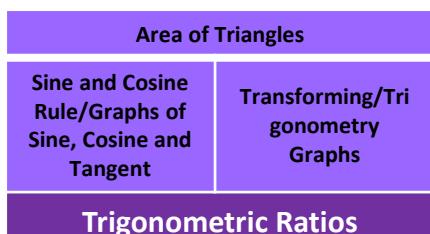


= Assessment

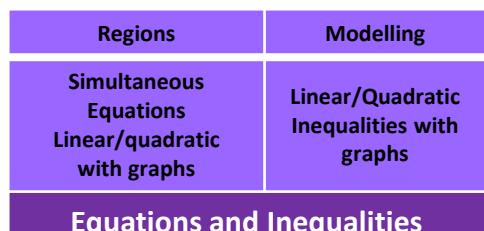
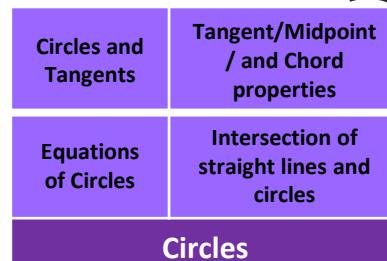
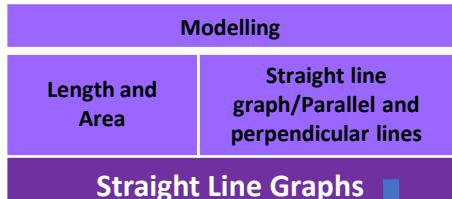
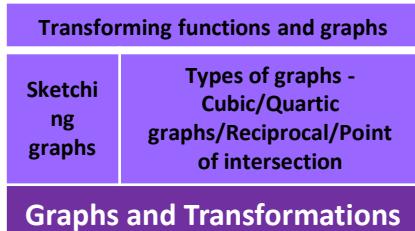


$f(a) = 0$   
 if and only if  
 $f'(a) = 0$   
 Factor Theorem  
 $f(x) = 0$   
 if and only if  $f'(x) = 0$

Pentecostal Term



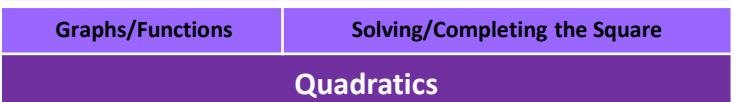
Lent Term



$$b^2 - 4ac$$



Advent Term



$$\frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

= Assessment



$$\int u dv = uv - \int v du$$

Further Education, Training or Employment

Time to Revise

Revision Programme

Exam Practice Papers

Solving geometric problems

Vectors in 3D/3D coordinates Application to Mechanics

Vectors

Pentecost Term

Trigonometric Differentiation/using second derivative	Parametric/implicit Differentiation
Differentiating $\sin x$ and $\cos x$ /Chain/Product/Quotient Rule/exponential and logarithms	Rates of Change
<b>Differentiation</b>	

Applications to Modelling	
Locating Roots	Iteration/Newton Raphson Method
<b>Numerical Methods</b>	

Integration using different Methods	Finding area/the Trapezium rule
Integrating Functions/ $f(ax+b)$ /by substitution/parts/partial fractions	Reverse chain rule/solving and Modelling with Differential Equations
<b>Integration</b>	

Lent Term

Points of Intersection	Modelling
Parametric equations/Using Trigonometric Identities	Curve Sketching
<b>Parametric Equations</b>	

Solving and Proving Trig identities/equations	Modelling with Trig functions/Simplifying $a\cos x + b\sin x$
Additional formulae/using angle addition formulae	Double angle formulae
<b>Trigonometry and Modelling</b>	

Using Partial Fractions	
Expanding Binomials	
<b>Binomial Expansion</b>	

Solving Trigonometric equations/small angle approximation	
Radian Measure/Arc length	Area of sector and segments
<b>Radians</b>	

Using sec, Cosec and Cot	Inverse Trig Functions
Sec, Cosec and Tan/Graphs of Sec, Cosec and Cot	Trig identities
<b>Trigonometric Functions</b>	

Modelling	Geometric Sequences
Recurrence relations	Arithmetic Sequences
<b>Sequences and Series</b>	

Repeated factors/ algebraic division	
Algebraic fractions/ Partial fractions	Proof by contradiction
<b>Algebraic methods</b>	

Combining Transformations	Modulus Problems
Modulus Function	Composite and Inverse Functions
<b>Functions and Graphs</b>	

Advent Term

Year 13



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