Senior N5 Mathematics Course
Whole numbers revision
Topic
Significant Figures - Rounding & Calculating (estimating)
BODMAS & Integers
Powers, Roots & Standard Form (Large)
Standard Form (Large) in Reverse - Standard Form (Small)
Standard Form (Small) in Reverse - Standard Form Calculations
Standard Form Calculations
Volume - Area Revision
Volume - Volume Revision - Cube/Cuboid & Surface Area
Volume - Prisim & Cylinder
Volume - Pyramid & Cone
Volume - Surface Area of Cylinder & Sphere Volume
Percentages - Revision - % of another number & Profit & Loss
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Holiday - End of Term
Percentages - Compound interest & Appreciation & Depreciation
Percentages - Appreciation & Depreciation
Percentages - Reverse percentages
Numeracy Revision
N5 Numeracy Assessment (if ready)
Algebra - Multiplying out brackets and simplifying & Introduction to FOIL
Algebra - Multiplying out pairs of brackets **Grid Method**
Algebra – Factorising - Common Factor
Algebra – Factorising - Difference of Two Sqaures
Algebra – Factorising - Trinomials or Quadratic Expressions Unitary x^2
Algebra – Factorising - Trinomials or Quadratic Expressions Non-Unitary x^2
Algebra – Completing the square - Unitary x^2
Gradient – Calculating the gradient of a straight line
Gradient – Calculating the gradient of a straight line - with Gradient Formula
Gradient – Calculating the gradient of a straight line - with Gradient Formula
Circle - Length of an Arc (Circle Revision)
Circle - Area of a sector & Mixed Examples
Circle - Finding the angle at the centre - given the Arc
Circle - Finding the angle at the centre - given the Sector
Straight Line – y = mx + c
Straight Line – y = mx + c (Ax + By + C = 0)
Straight Line – y - b = m(x - a)
Algebraic Fractions – Simplifying fractions
Algebraic Fractions – Factorising & Simplifying fractions
Algebraic Fractions – More Factorising & Simplifying fractions
Algebraic Fractions – Adding & Subtracting fractions (Smile & A Kiss)
Algebraic Fractions – More Adding & Subtracting fractions (Smile & A Kiss)
Algebraic Fractions – Multiplying & Dividing fractions
Algebraic Fractions – More Multiplying & Dividing fractions
Surds - Introduction to Surds & Calculations with surds
Surds - Simplfying Surds "like" variables & Finding a common factor
Surds - Simplfying Surds using the rules of Surds (with Perfect Squares)
Surds - Multiplying out brackets (FOIL) and simplfying
Surds - Rationalising the denominator
KHS ASSESSMENT 1 Aim to complete just after the October Holidays
Indices - Applying Rule 1 and 2 of indices
Indices - Applying Rule 3 of indices & Combining Rules 1, 2 & 3.
Indices - Applying Rule 4 & Rule 5 of indices
Indices - Combining Rules 1, 2, 3, 4 & 5 of indices
Indices - Applying Rule 6 of indices - Fractional Indices
Indices – Multiplying out brackets (FOIL) including terms a^0 & a^1
Indices – Using Scientific notation

Linear equations – Solving linear equations in the form - ax + b = c & ax + b = cx + d & a(x + b) = c & a(x + b) = cx + d
Linear equations – Solving equations with fractions
Linear equations – Solving equations with fractions (harder)
Linear Inequalities – Solving in the form - ax + b <= c & ax + b >= cx + d & a(x + b) <= c & a(x + b) >= cx + d
Change the subject - Basic Balance Method
Change the subject - Balance Method with Squares & Square Roots
Simultaneous Equations - Sketching Straight Lines
Simultaneous Equations - Solving Graphically
Simultaneous Equations - Solving By Substitution
Simultaneous Equations - Solving By Elimination (same coefficients)
Simultaneous Equations - Solving By Elimination (different coefficients) x1 Equation.
Simultaneous Equations - Solving By Elimination (different coefficients) x2 Equations.
Simultaneous Equations - Forming Equations & Solving By Elimination
Simultaneous Equations - Forming Equations & Solving By Elimination
Quadratics - Features of quadratic graphs
Quadratics - Determine equation of a quadratic graphs (Completed Square Form) - Minimum & Maximum Turning Points
Quadratics - Identifying Min/Max T.P, roots and line of symmetry
Quadratics - Determine equation of a quadratic of the form y = kx2
Quadratics - Drawing quadratic graphs
<mark>Prelim - January</mark>
Quadratics - Solving quadratic equations - a graphical method
Quadratics - Solving quadratic equations - by factorising
Quadratics - Solving quadratic equations - by factorising
Quadratics - Solving quadratic equations - using quadratic formula
Quadratics - Solving quadratic equations - using quadratic formula
Quadratics - Using the discriminant
Pythagoras - Mixed examples & Converse of Pythagoras
Pythagoras - Converse of Pythagoras & 3D problems
Properties of shape - Polygons
Properties of shape - Circle properties including isoceles triangles & perpendicular bisector
Properties of shape - Circle properties including angles in a semi-circle
Properties of shape - Circle properties including tangents & the kite
Similarity - Similar figures
Similarity - Similar triangles
Similarity - Lengths, areas and volumes
Trigonometry - Area of a triangle
Trigonometry - Sine rule to find side
Trigonometry - Sine rule to find angle
Trigonometry - Cosine rule to find side
Trigonometry - Cosine rule to find angle
Trigonometry - Which Formula do I use? - All bearings questions
Statistics - Mean, median, mode and range
Statistics - Interquartile Range (IQR)
Statistics - Standard deviation
Statistics - Standard deviation including comparing distributions
Statistics - Scatter graphs and correlation
Statistics - Scatter graphs and line of best fit
Trigonometric graphs - curve sketching & identifying key features of graphs - y = a sin x & y = a cos x
Trigonometric graphs - curve sketching & identifying key features of graphs - y = sin bx & y = cos bx
Trigonometric graphs - curve sketching & identifying key features of graphs - y = a sin x + c & y = a cos x + c
Trigonometric graphs - curve sketching & identifying key features of graphs - y = sin (x + a) + c & y = cos (x - a) + c
2D Vectors/3D Coordinates - Vector notation - directed line segment/equal vectors/vectors in opposite directions
2D Vectors/3D Coordinates - Multiplying a vector by a scalar
2D Vectors/3D Coordinates - Magnitude of a Vector
2D Vectors/3D Coordinates - Vector addition & diagrams
2D Vectors/3D Coordinates - 3D Coordinates
<mark>KHS Assessment 3 or 2nd Prelim - aim to complete by end of March</mark>
Trigonometric Functions - Solving
Trigonometric Functions - Solving
Trigonometric Functions - Identities