

EDEXCEL HIGHER CHECKLIST 2017

HIGHER - Grades 4 – 9

Algebra

I can do this	Title
	Approximate solutions to equations using iteration.
	Equation of a circle
	Equation of a tangent
	Algebra and Proof
	Gradients and area under a graph
	Graphs of trigonometric functions
	Quadratic equations (completing the square)
	Composite functions
	Expand the product of two or more binomials
	Factorising difficult quadratic expressions
	Geometric Sequences
	Graphs of exponential functions
	Quadratic equations (needing re-arrangement)
	Quadratic equations (quadratic formula)
	Real-life exponential graphs
	Represent quadratic inequalities
	Simultaneous equations (non-linear)
	Solve quadratic inequalities
	Translations and reflections of a function
	Turning points & completing the square
	Algebraic fractions
	Identifying parallel lines
	Inverse functions
	Linear inequalities in two variables
	n th term of a quadratic sequence
	Quadratic equations (factorisation)
	Quadratic equations (graphical methods)
	Represent linear inequalities
	Simultaneous equations (linear)
	Algebraic argument
	Algebraic terminology

	Cubic and Reciprocal graphs
	Deduce quadratic roots algebraically
	Derive an equation
	Equation of a line
	Expand the product of two binomials
	Factorising quadratic expressions
	Fibonacci, quadratic and simple geometric sequences
	Graphical solution to equations
	Inequalities on number lines
	Linear equations
	Quadratic graphs
	Reciprocal real-life graphs
	Simplify indices
	Simplify surds
	Solve linear inequalities in one variable
	Writing formulae and expressions
	Changing the subject
	Collecting like terms
	Expressions
	Factorise single bracket
	Finding the equation of a line
	Graphs of linear functions
	Graphs of quadratic functions
	Linear equations one unknown
	Multiplying single brackets
	Non-standard real life graphs
	n th term of a linear sequence
	Number machines
	Substitution
	Using " $y = mx + c$ "

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Geometry and Measures

I can do this	Title
	Circle theorems
	Vector arguments and proof
	Area of a triangle
	Cosine Rule
	Pythagoras and trig 2D and 3D
	Sine Rule
	Combined transformations
	Congruence and Similarity
	Standard trigonometric ratios
	Arc lengths and sectors
	Derive triangle results
	Enlargements and negative SF
	Loci
	Pythagoras
	Similarity and Congruence
	Standard constructions
	Surface Area
	Trigonometric ratios
	Volume
	Alternate and corresponding angles
	Area of a circle
	Areas of composite shapes
	Areas of triangles, trapezia and parallelograms
	Bearings
	Circle terminology
	Circumference of a circle
	Congruent triangles
	Enlargements and fractional SF
	Perimeter of 2D shapes
	Plans and elevations
	Polygons
	Solve geometrical problems
	Vector arithmetic
	Volume of prisms

Statistics

I can do this	Title
	Boxplots
	Cumulative frequency
	Histograms with unequal class widths
	Quartiles and Interquartile Range
	Histograms with equal class widths
	Scatter graphs
	Comparing data using graphs
	Comparing Distributions
	Correlation
	Population
	Sampling
	Scatter Diagrams
	Time series

Probability

I can do this	Title
	Conditional Probability
	Probability of dependent events
	Probability of independent events
	Mutually exclusive sum
	Relative Frequency
	Tables and Grids
	Theoretical Probability
	Unbiased Samples
	Venn Diagrams

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Number

I can do this	Title
	Surds
	Index Laws (negative and fractional)
	Product rule
	Recurring Decimals
	Upper and lower bounds
	Finance 1
	Powers and Roots
	Product of prime factors
	Using Pi
	Calculating with fractions
	Error intervals
	Index Laws
	Limits of accuracy
	Adding and subtracting fractions
	Checking calculations
	Compound measures
	Converting metric units
	Estimation
	Fractions and percentages
	Fractions and ratio problems
	Interpret calculator displays
	LCM and HCF
	Multiples and factors
	Multiplying fractions
	Operations
	Order of operations
	Powers
	Rounding
	Standard Form
	Terminating decimals and fractions

I can do this	Title
	Gradients and the rate of change
	General iterative processes
	Direct and inverse proportion
	Compound Units
	Gradient & the rate of change
	Growth and decay
	Interpret Proportion
	Percentage change
	Problems with compound units
	Scale factors and similarity
	Simple Interest and Financial Maths
	Solve Proportion Problems
	Compare Fractions, Decimals and Percentages
	Compare lengths, area, volume
	Comparing quantities as a ratio
	Division of a quantity as a ratio
	Express one quantity as a % of another
	Percentage change
	Problems involving ratio
	Proportion and ratio
	Ratio and fractions
	Ratio Sharing

Ratio, Proportion and rates of change

Exam details:

Edexcel GCSE Mathematics A - Higher

Exam Dates:

Paper 1 (non-calc) – Thursday 25th May 2017 AM

Paper 2 (calc) – Thursday 8th June 2017 AM

Paper 3 (calc) – Tuesday 13th June 2017 AM

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All papers 90 mins each