

MATHS MOON HIGHER GCSE REVISION CHECKLIST (PART 1 OF 5)

NUMBER

APPROXIMATION AND ESTIMATION	R A G	Rounding
	R A G	Estimation
	R A G	Bounds
	R A G	Error intervals
ARITHMETIC	R A G	Four Operations
	R A G	Negative numbers
FRACTIONS	R A G	Equivalent fractions
	R A G	Fraction arithmetic
	R A G	Fractions of amounts
	R A G	One amount as a fraction of another
	R A G	Ordering fractions, decimals and percentages
	R A G	Recurring decimals to fractions
POWERS AND ROOTS	R A G	Square and cube numbers and roots
	R A G	Simplifying surds
	R A G	Laws of indices
	R A G	Negative and fractional indices
	R A G	Product of prime factors
NUMBER PROPERTIES	R A G	Factors and multiples
	R A G	Lowest Common Multiple and Highest Common Factor
	R A G	Place value and ordering integers
	R A G	Product of prime factors
STANDARD FORM	R A G	Calculations
	R A G	Converting
OTHER	R A G	Using a calculator

ALGEBRA

<p>EQUATIONS AND INEQUALITIES</p>	<p><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Equations of parallel lines</p> <p><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Forming an equation</p> <p><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Linear equations</p> <p><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Linear inequalities</p> <p><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Quadratic equations</p> <p><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Quadratic inequalities</p> <p><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Setting up and solving equations</p> <p><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Simultaneous equations, linear and quadratic</p> <p><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Equation of a tangent to a circle</p>
<p>FUNCTIONS</p>	<p><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Number machines</p> <p><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Inverse and composite functions</p>
<p>GRAPHS</p>	<p><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Coordinates</p> <p><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Gradient of a curve</p> <p><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Straight line graphs</p> <p><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Gradients of parallel and perpendicular lines</p> <p><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Graphs of trigonometric functions</p> <p><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Quadratic graphs</p> <p><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Speed-time graphs</p> <p><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Transformations of functions</p>
<p>MANIPULATION</p>	<p><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Algebraic fractions</p> <p><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Changing the subject of a formula</p> <p><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Difference of two squares</p> <p><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Expanding brackets, single and double</p> <p><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Factorising</p> <p><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Forming an expression</p> <p><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Laws of indices</p> <p><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Simplifying</p> <p><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Substitution</p>
<p>SEQUENCES</p>	<p><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Linear sequences</p> <p><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Quadratic sequences</p> <p><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Special sequences, including Fibonacci</p>

MATHS MOON 🌙 HIGHER GCSE REVISION CHECKLIST (PART 3 OF 5)

RATIO, PROPORTION AND RATES OF CHANGE

COMPOUND MEASURES	R A G	Average speed
	R A G	Density
	R A G	Pressure
CONVERSIONS	R A G	Mass, time and area
	R A G	Length
	R A G	Compound units
	R A G	Scale drawings
GROWTH AND DECAY	R A G	Iterative processes
PERCENTAGES	R A G	Decimals to percentages
	R A G	Percentages to fractions
	R A G	One quantity as a percentage of another
	R A G	Compound and simple interest
	R A G	Percentage increase and decrease
	R A G	Percentage of an amount
	R A G	Reverse percentages
PROPORTION	R A G	Currency conversions
	R A G	Equations of proportion
	R A G	Direct proportion
	R A G	Inverse proportion
RATIO	R A G	Ratios in the form 1:n
	R A G	Ratios to fractions
	R A G	Sharing in a ratio
	R A G	Using ratio
	R A G	Writing as a ratio

MATHS MOON 🌙 HIGHER GCSE REVISION CHECKLIST (PART 4 OF 5)

GEOMETRY AND MEASURES

<p>ANGLES</p>	<p><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Angles in a polygon</p> <p><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Corresponding and alternate angles</p> <p><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Bearings</p> <p><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Vertically opposite angles, angles around a point and angles on a straight line</p> <p><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Circle theorems</p>
<p>LENGTH, AREA AND VOLUME</p>	<p><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Area of a rectangle</p> <p><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Area of a circle, and sector of a circle</p> <p><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Area of parallelograms and trapeziums</p> <p><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Area of a triangle</p> <p><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Composite areas</p> <p><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Similar and congruent triangles</p> <p><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Surface area of a cuboid</p> <p><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Volume of cubes and cuboids</p> <p><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Vule and surface area of a prism</p> <p><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Volume of composite solids</p>
<p>PYTHAGORAS' THEOREM AND TRIGONOMETRY</p>	<p><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Using Sine, Cosine and Tangent</p> <p><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Exact trigonometric values</p> <p><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Pythagoras' Theorem</p> <p><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Sine and Cosine Rules</p> <p><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Trigonometry in 3D</p>
<p>SHAPE</p>	<p><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Transformations</p> <p><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Plans and elevations</p> <p><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Quadrilaterals</p> <p><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Reflection, rotation and enlargement</p> <p><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Properties of triangles</p>
<p>VECTORS</p>	<p><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Column vectors</p> <p><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Vector geometry</p>

MATHS MOON 🌙 HIGHER GCSE REVISION CHECKLIST (PART 5 OF 5)

PROBABILITY AND STATISTICS

PROBABILITY	R A G	Language of probability
	R A G	Dependent combined events
	R A G	Independent combined events
	R A G	Probability trees
	R A G	Probability from a Venn diagram
	R A G	Venn diagrams
STATISTICAL DIAGRAMS	R A G	Bar charts
	R A G	Box plots
	R A G	Cumulative frequency graphs
	R A G	Frequency tables
	R A G	Stem and leaf diagrams
	R A G	Two-way tables
	R A G	Frequency polygons
	R A G	Histograms
STATISTICAL MEASURES	R A G	Interquartile range
	R A G	Lower and upper quartiles
	R A G	Mean, Median, Mode and Range
POPULATION	R A G	Sampling
	R A G	Comparing distributions