

Autumn Term	Easter Term	Summer Term
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Link to Careers

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Year 7	Unit	Baseline assessments	M1 Prime Factors HCF/LCM			M2 Decimals and Rounding		M3 Fractions: Adding & Subtracting			M4 Fractions: Multiplying & Dividing	
	Skills		Finding the lowest common multiple(M227) Finding factors and using divisibility tests(M823) Finding the highest common factor(M698)	Finding prime numbers(M322) Prime factor decomposition(M108)	Finding the HCF and LCM using prime factor decomposition(M365)	Multiplying and dividing by 10, 100 and 1000(M113) Multiplying using place value(M911) Using a written method to multiply integers(M187) Using a written method to multiply decimals(M803)Adding integers(M928) Adding decimals(M429) Subtracting integers(M347) Subtracting decimals(M152)	Dividing numbers into equal groups(M462) Using a written method to divide integers(M354) Dividing with a remainder(M873) Using a written method to divide by integers to get a decimal answer(M262) Using a written method to divide by decimals(M491)	Rounding integers using significant figures(M994) Rounding decimals using significant figures(M131) Estimating calculations(M878)	Finding fractions of shapes(M158) Constructing fractions(M939) Finding equivalent fractions(M410)	Converting between mixed numbers and improper fractions(M601) Simplifying fractions(M671) Ordering fractions(M335)	Adding and subtracting fractions(M835) Adding and subtracting mixed numbers(M931)	Reciprocals(M216) Multiplying fractions(M157) Dividing fractions(M110)
Year 7	Unit	M5 Number Sense	M6 2D Shapes	M7 Perimeter & Area			M8 Coordinates	M9 Expressions & Equations			M10 Measures	
	Skills	Adding and subtracting with negative numbers(M106) Multiplying and dividing with negative numbers(M288) Ordering negative numbers(M527)	Calculating with roots and powers(M135) Using the correct order of operations(M521) Using the commutative laws(M952) Using the associative laws(M409)	Line properties(M814) Shape properties(M276) Symmetry(M523)	Finding perimeters using grids(M920) Finding the perimeter of rectangles and simple shapes(M635) Finding the perimeter of compound shapes(M690)	Finding areas using grids(M900) Finding the area of rectangles(M390) Finding the area of compound shapes containing triangles(M996)	Finding the area of triangles(M610) Finding the area of compound shapes containing triangles(M996)	Reading and plotting coordinates(M618) Solving shape problems involving coordinates(M230)	Algebraic notation(M813) Algebraic terminology(M830) Simplifying expressions containing a single variable(M795) Simplifying expressions containing multiple variables(M531) Simplifying expressions containing non-linear terms(M949)	Substituting into expressions with one operation(M417) Substituting into expressions with multiple operations(M327) Substituting into algebraic formulae(M208) Substituting into real-life formulae(M979)	Solving equations with one step(M707) Solving equations of the form $ax+b=c$ $ax+b=c$ (M634) Solving equations of the form $x/a+b=c$ $x/a+b=c$ (M647)	Converting units of time(M515) Using clocks(M892) Calculating with time(M627) Using timetables(M963) Using calendars(M747)
Year 7	Unit	M11 Brackets	M12 Angles	M13 Handling Data and Statistical diagrams			M14 Proportion	M15 Fractions, Decimals and Percentages			M16 Probability	
	Skills	Using the distributive law(M637) Expanding single brackets(M237) Expanding single brackets and simplifying expressions(M792) Factorising into one bracket(M100)	Types of angles(M502) Estimating angles(M541) Measuring angles(M780) Drawing angles(M331)	Angles on a line and about a point(M818) Vertically opposite angles(M163) Angles in triangles(M351)	Calculating the range(M328) Calculating the median(M934) Finding the mode(M841) Calculating the mean(M940)	Interpreting frequency tables and two-way tables(M899) Drawing and interpreting tally charts(M597) Drawing and interpreting pictograms(M644) Drawing bar charts(M460) Interpreting bar charts(M738)	Collecting and recording data using tables(M945) Finding averages from frequency tables(M127) Choosing suitable averages and solving problems(M440)	Solving proportion problems(M478)	Fractions of amounts without a calculator(M695) Fractions of amounts with a calculator(M684)	Converting between fractions and decimals(M958) Converting between fractions, decimals and percentages(M264) Ordering fractions, decimals and percentages(M553) Writing numbers as percentages of other numbers(M235)	Using probability phrases(M655) Writing probabilities as fractions(M941) Writing probabilities as fractions, decimals and percentages(M938) Probabilities of mutually exclusive events(M755) Sample space diagrams(M718)	


	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Year 8	Unit	M1 Understanding & Using Formulae			M2 Equations			M3 Number Patterns & Sequences			M4 Probability	
	Skills	Order of operations (BIDMAS) Recap of negative number rules	Substituting into expressions with one operation(M417) Substituting into expressions with multiple operations(M327) Substituting into algebraic formulae(M208) Substituting into real-life formulae(M979)	Changing the subjects of formulae with one step(U675) Changing the subjects of formulae with two or more steps(U181)	Solving equations of the form $(x+a)/b=c$ $(x+a)/b=c$ (M401) Solving linear equations involving brackets(M902) Solving equations with the unknown in the denominator (M387)	Solving equations with the unknown on both sides (M554) including with brackets Constructing and solving equations(M957)	Problem solving with equations	Term-to-term rules for numerical sequences(M381) Term-to-term rules for sequences of patterns(M241)	Substituting into position-to-term rules(M166) Position-to-term rules for arithmetic sequences(M991) Position-to-term rules for sequences of patterns(M866)	Problems involving sequences	Using probability phrases(M655) Writing probabilities as fractions(M941) Writing probabilities as fractions, decimals and percentages(M938) Probabilities of mutually exclusive events(M755) Sample space diagrams(M718) Relative frequency	Relative Tree diagrams
Year 8	Unit	M5 Rounding	M6 Coordinates	M7 Area	M7/8 Area/Circles	M8 Circles	M9 Standard Form	M10 Venn Diagrams		M11 3D Shapes	M12 Surface Area and Volume	
	Skills	Rounding integers using significant figures(M994) Rounding decimals using significant figures(M131) Estimating calculations(M878)	Calculating midpoints(M622) Mixed problems: Coordinates and midpoints(M311)	Finding the area of parallelograms(M291) Finding the area of trapeziums(M705)	Converting units of area(M728) Identifying parts of circles(M595)	Finding the circumference of circles(M169) Finding the area of circles(M231)	Using standard form with positive indices(M719) Using standard form with negative indices(M678)	Venn diagrams(M829) Probabilities from Venn diagrams(M419)	Properties of 3D shapes(M767) Nets of 3D shapes(M518)	Finding the surface area from a net(M884) Finding the surface area of cubes and cuboids(M534) Finding the surface area of prisms(M661)	Finding the volume of cubes and cuboids(M765) Finding the volume of prisms(M722) Converting units of volume(M465)	
	Unit	M13	M14	M15		M16		M17	M18	M19		M20

Year 8	Linear Graphs	Transformations	Angles	Statistical diagrams	Inequalities	Brackets	Algebraic Fractions		Recurring Decimals
	Plotting horizontal, vertical and diagonal lines(M797) Plotting straight line graphs(M932) Finding equations of straight line graphs(M544)	Translation(M139) Reflection(M290)	Angles in quadrilaterals(M679) Combining angle facts(M319) Angles on parallel lines(M606) Using quadrilateral properties to find angles(M393) Angles in polygons(M653)	Drawing pie charts(M574) Interpreting pie charts(M165) Drawing line graphs(M140) Interpreting line graphs(M183) Drawing stem-and-leaf diagrams(M648) Interpreting stem-and-leaf diagrams(M210) Finding averages from diagrams(U854)	Reading and drawing linear inequalities on number lines(M384) Solving single inequalities(M118)	Expanding double brackets(M960)	Calculating with fractions(M645) Calculating with mixed numbers(M619)	Simplifying algebraic fractions by factorising(M754) Adding and subtracting algebraic fractions(M336)	Using recurring decimal notation(M701) Converting fractions to recurring decimals(M922)

		Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Year 9	Unit	M1 Rules of Indices			M2 Surds			M3 Rearranging Formula and Pythagoras' Theorem			M4 Right angled Trigonometry		
	Skills	Index rules with positive indices(M608) Index rules with negative indices(M150) Simplifying expressions using index laws(M120) Simplifying algebraic fractions by cancelling common factors(M568)	Estimating roots and powers(U299) Indices of the form $1/a$ (U985) Indices of the form a/b (U772)	Converting to and from standard form Multiplying and dividing numbers in standard form(U264) Adding and subtracting numbers in standard form(U290) Standard form with a calculator(U161)	Multiplying and dividing surds(U633) Simplifying surds(U338)	Adding and subtracting surds(U872) Expanding brackets with surds(U499)	Using a calculator efficiently	Changing the subjects of formulae with one step(U675) Changing the subjects of formulae with two or more steps(U181)	Changing the subjects of formulae with two or more steps(U181) Changing the subject when the subject appears more than once(U191)	Using Pythagoras' theorem in 2D(U385) Applying Pythagoras' theorem in 2D(U828)	Understanding sin, cos and tan(U605) Finding unknown sides in right-angled triangles(U283) Finding unknown angles in right-angled triangles(U545)		
Year 9	Unit	M5 Fraction and Percentage Change	M6 Circles	M7 3D Shapes	M8 Quadratic expressions	M9 Ratio and Proportion		M10 Linear Graphs		M11 Compound Measures		M12 Motion-time graphs	
	Skills	Finding fractions of amounts without a calculator(U881) Finding fractions of amounts with a calculator(U916) Finding percentages of amounts without a calculator(U464) Finding percentages of amounts with a calculator(U349)	Finding the arc length of sectors(U221) Finding the area of sectors(U373) Finding the surface area of cylinders(U464) Finding the volume of cylinders(U915)	Plans and elevations(U743)	Factorising quadratic equations of the form x^2+bx+c (U178) Factorising the difference of two squares(U963) Factorising to solve quadratic equations of the form $x^2+bx+c=0$ (U228)	Writing and simplifying ratios(U687) Sharing amounts in a given ratio(U577)	Solving direct proportion word problems(U721) Solving inverse proportion word problems(U357) Currency conversion(U610)	Plotting straight line graphs(U741) Finding equations of straight line graphs(U315) Interpreting equations of straight line graphs(U669)		Calculating with speed(U151) Calculating with rates(U256)		Plotting distance-time graphs(U403) Interpreting distance-time graphs(U914) Calculating speed from distance-time graphs(U462) Plotting distance-time graphs using speeds(U966)	
Year 9	Unit	M13 Quadratic Graphs	M14 Angles and Bearings		M15 Transformations	M16 Similarity and Congruence		M17 Handling Data and Statistical Diagrams			M18 Vectors		
	Skills	Plotting graphs of quadratic functions(U989) Interpreting graphs of quadratic functions(U667) Solving quadratic equations graphically(U601)	Combining angle facts(U655) Angles on parallel lines(U826) Using quadrilateral properties to find angles(U329) Angles in polygons(U427)	Measuring and drawing bearings(U525) Calculating bearings(U107)	Translation(U196) Reflection(U799) Rotation(U696) Enlargement by a positive scale factor(U519) Mixed transformations(M881)	Understanding similarity(U551) Finding unknown sides in similar shapes(U578)	Understanding congruence(U790) Congruent triangles(U866) Constructing triangles(U187)	Types of data(U322) Presenting data and making conclusions(U571) Comparing populations using diagrams(U520) Choosing suitable averages and solving problems(U717)			Plotting scatter graphs(U199) Interpreting scatter graphs(U277) Using lines of best fit(U128)	Interpreting frequency tables with grouped data(U312) Finding averages from grouped data(U877) Drawing and interpreting frequency polygons(U840)	

		Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Year 10	Unit	M1 Percentages		M2 Surface Area and Volume			M3 Simultaneous Equations		M4 Formulae	M5 Trigonometry		M6 Constructions	
	Skills	Compound interest calculations(U332) Growth and decay(U988)		Finding the surface area of pyramids(U871) Finding the surface area of cones(U523) Finding the surface area of spheres(U893) Finding the surface area of frustums*(U334) Finding the surface area of composite shapes*(U561) <small>*Topic is included again in Year 11 Foundation so, if preferable, it can be taught later for classes that are likely to follow the Foundation scheme.</small>	Finding the volume of pyramids(U484) Finding the volume of cones(U116) Finding the volume of spheres(U617) Finding the volume of frustums*(U350) Finding the volume of composite shapes*(U543) <small>*Topic is included again in Year 11 Foundation so, if preferable, it can be taught later for classes that are likely to follow the Foundation scheme.</small>	Solving simultaneous equations using elimination(U760) Solving simultaneous equations using substitution(U757) Solving simultaneous equations graphically(U836) Constructing and solving simultaneous equations(U137)	Changing the subjects of formulae with two or more steps(U181) Changing the subject when the subject appears more than once(U191)	Understanding sin, cos and tan(U605) Finding unknown sides in right-angled triangles(U283) Finding unknown angles in right-angled triangles(U545) Using the exact values of trigonometric ratios(U627) Angles of elevation and depression*(U967) Calculating with trigonometry and bearings*(U164) <small>*Topic is included again in Year 11 Foundation so, if preferable, it can be taught later for classes that are likely to follow the Foundation scheme.</small>		Constructing loci(U820)			
	Unit	M7 Linear Graphs		M8 Real life Graphs		M9 Set Notation	M10 Tree Diagrams	M11 Compound Measures	M12 Ratio		M13 Graphs		

Year 10	Skills	Equations of parallel lines(U377) Finding the equation of a straight line from its gradient and a point(U477) Finding the equation of a straight line from two points on the line(U848) Equations of parallel and perpendicular lines*(U898) *Topic is 'Higher only' so does not need to be taught to classes that are likely to follow the Foundation scheme.	Plotting linear real-life graphs(U652) Using and finding equations of linear real-life graphs(U862) Sketch graphs of water flows(U896)	Venn diagrams with set notation(U748) Using set notation(U296)	Tree diagrams for independent events(U558) Tree diagrams for dependent events(U729)	Calculating with density(U910) Calculating with pressure(U527)	Combining ratios(U921) Calculating with ratios and algebra(U676) Changing ratios(U865)	Calculating acceleration from velocity-time graphs(U562) Plotting velocity-time graphs(U937)	Graphs of cubic functions(U980) Graphs of reciprocal functions(U593) Graphs of exponential functions*(U229) *Topic is 'Higher only' so does not need to be taught to classes that are likely to follow the Foundation scheme.
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Year 10	Unit	M14	M15	M16	M17	M18	M19	M20	M21	M22	
		Sequences	Handling Data	Proportion	Transformations	Rounding	Indices	Recurring decimals	Brackets	Handling Data and Statistical diagrams	
		Position-to-term rules for arithmetic sequences(U498) Position-to-term rules for sequences of patterns(U978) Position-to-term rules for geometric sequences(U958)Position-to-term rules for quadratic sequences(U206) Position-to-term rules for geometric sequences(U958) Special sequences(U680)	Sampling and bias(U162) Capture-recapture(U328)	Interpreting direct proportion equations(U640) Interpreting inverse proportion equations(U364) Graphs of direct and inverse proportion(U238)Constructing direct proportion equations(U407) Constructing inverse proportion equations(U138) Graphs of direct and inverse proportion(U238)	 Enlargement by a positive or negative scale factor(U134) Combining transformations(U766)	Finding error intervals(U657) Finding error intervals for truncated numbers(U301) Finding bounds for calculations(U587)	Index rules with positive indices(U235) Index rules with negative indices(U694) Simplifying expressions using index laws(U662). Estimating roots and powers(U299) Indices of the form $1/a$ (U985) Indices of the form a/b (U772)	Converting fractions to recurring decimals(U550) Converting recurring decimals to fractions(U689)	Expanding double brackets(U768) Factorising quadratic expressions of the form $x^2 + bx + c$ (U178) Factorising the difference of two squares(U963) Factorising to solve quadratic equations of the form $x^2 + bx + c = 0$ (U228)Expanding triple brackets(U606) Completing the square(U397) Factorising quadratic expressions of the form $ax^2 + bx + c$ (U858) Finding the turning point of a quadratic graph by completing the square(U769)	Interpreting frequency tables with grouped data(U312) Finding averages from grouped data(U877). Drawing cumulative frequency graphs(U182) Interpreting cumulative frequency graphs(U642)	Drawing stem-and-leaf diagrams(U200) Interpreting stem-and-leaf diagrams(U909) Drawing line graphs(U590) Interpreting line graphs(U193) Drawing and interpreting frequency polygons(U840). Drawing box plots(U879) Interpreting box plots(U837) Comparing populations using box plots and cumulative frequency graphs(U507)

Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
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Year 11	Unit	M1	M2	M3	M4	M5	M6	M7		
		Graphs	Number Skills Review	Algebraic fractions	Equations	Angles	Pythagoras and Trigonometry	Surface Area and Volume		
	Skills	Estimating gradients of non-linear graphs using tangents(U800) Calculating distances from velocity-time graphs(U611) Estimating areas under non-linear graphs(U882) Equations of circles and tangents(U567) ***In line with science for all year 11 students***	Finding the lowest common multiple(U751) Finding the highest common factor(U529) Prime factor decomposition(U739) Finding the HCF and LCM using prime factor decomposition(U250) Ordering fractions and mixed numbers(U439) Adding and subtracting mixed numbers(U793) Multiplying with mixed numbers(U224) Dividing with mixed numbers(U538)	Simplifying expressions using index laws(U662) Simplifying algebraic fractions by cancelling common factors(U103) Simplifying algebraic fractions by factorising into one bracket(U437) Simplifying algebraic fractions by factorising into two brackets(U294) Adding and subtracting algebraic fractions(U685) Multiplying algebraic fractions(U457) Dividing algebraic fractions(U824)	solving equations with two or more steps(U325) Solving equations with the unknown on both sides(U870) Solving equations with the unknown in the denominator(U505) Constructing and solving equations(U599) Factorising to solve quadratic equations of the form $x^2 + bx + c = 0$ (U228) Solving quadratic equations graphically(U601)	Solving simultaneous equations using elimination(U760) Solving simultaneous equations using substitution(U757) Solving simultaneous equations graphically(U836) Constructing and solving simultaneous equations(U137)	Combining angle facts(U655) Angles on parallel lines(U826) Using quadrilateral properties to find angles(U329) Angles in polygons(U427)	Angles subtended at the centre or circumference of a circle(U459) Angles in segments and cyclic quadrilaterals(U251) Circle theorems for chords and tangents(U489) Alternate segment theorem(U130)	Using Pythagoras' theorem in 2D(U385) Applying Pythagoras' theorem in 2D(U828) Finding unknown sides in right-angled triangles(U283) Finding unknown angles in right-angled triangles(U545) Using the exact values of trigonometric ratios(U627) Angles of elevation and depression(U967) Calculating bearings(U107) Calculating with trigonometry and bearings(U164) The sine rule(U952) The cosine rule(U591) The area rule(U592) Using Pythagoras' theorem in 3D(U541) Trigonometry in 3D shapes(U170)	Finding the surface area of cones and spheres(U771) Finding the surface area of frustums(U334) Finding the surface area of composite shapes(U561) Finding the volume of cones and spheres(U426) Finding the volume of frustums(U350) Finding the volume of composite shapes(U543)

Year 11 (Foundation)	Unit	M8	M9	M10	M11	M12	M13	M14	M15	M16	M17	
		Statistical Diagrams	Probability	Inequalities	Vectors	Percentages	Compound Measures	Ratio and Proportion	Standard Form	Sequences	Linear Graphs	
	Skills	Drawing pie charts(U508) Interpreting pie charts(U172) Plotting scatter graphs(U199) Interpreting scatter graphs(U277) Using lines of best fit(U128)	Probabilities of mutually exclusive events(U683) Sample space diagrams(U104) Expected results from repeated experiments(U166) Venn diagrams with set notation(U748) Using set notation(U296) Tree diagrams for independent events(U558) Tree diagrams for dependent events(U729) Experimental probabilities(U580)	Solving inequalities with the unknown on both sides(U738) Solving double inequalities(U145) Constructing and solving inequalities(U337)	Adding and subtracting column vectors(U903) Multiplying column vectors by a scalar(U564) Identifying parallel vectors(U660) Solving geometric problems using vectors(U781)	Percentage change with a calculator(U671) Finding original values in percentage calculations(U286) Finding the percentage an amount has been changed by(U278) Compound interest calculations(U332) Growth and decay(U988)	Calculating with speed(U151) Calculating with rates(U256) Calculating with density(U910) Calculating with pressure(U527)	Combining ratios(U921) Calculating with ratios and algebra(U676) Changing ratios(U865)	Solving direct proportion word problems(U721) Solving inverse proportion word problems(U357) Currency conversion(U610)	Multiplying and dividing numbers in standard form(U264) Adding and subtracting numbers in standard form(U290) Standard form with a calculator(U161)	Position-to-term rules for arithmetic sequences(U498) Position-to-term rules for sequences of patterns(U978) Position-to-term rules for geometric sequences(U958) Special sequences(U680)	Plotting straight line graphs(U741) Finding equations of straight line graphs(U315) Interpreting equations of straight line graphs(U669) Equations of parallel lines(U377) Finding the equation of a straight line from its gradient and a point(U477) Finding the equation of a straight line from two points on the line(U848)

Unit	M8	M9	M10	M11	M12	M13	M14	M15	M16
	Statistical Diagrams	Probability	Inequalities	Surds	Functions	Transformations	Iteration	Similarity	Proofs

Year 11 (Higher)	Skills	Drawing histograms with equal class widths(U185) Drawing histograms with unequal class widths(U814) Interpreting histograms(U983) Calculating averages from histograms(U267)	Conditional probabilities from tables(U246) Conditional probabilities from Venn diagrams(U699) Using the conditional probability formula(U821) Conditional probabilities from tree diagrams(U806) Using the product rule for counting(U369)	Graphs of linear inequalities(U747) Solving quadratic inequalities(U133)	Multiplying and dividing surds(U633) Simplifying surds(U338) Adding and subtracting surds(U872) Expanding brackets with surds(U499) Rationalising denominators containing a single term(U707) Rationalising denominators containing two terms(U281)	Substituting into functions(U637) Substituting into composite functions(U895)	Finding composite functions(U448) Finding inverse functions(U996)	Translating graphs(U598) Reflecting graphs(U487) Transforming graphs(U455) Graphs of trigonometric functions(U450)	Using recurrence relations(U171) Substituting into iterative formulae(U434) Finding approximate solutions to equations using iteration(U168)	Finding the perimeter and area of similar shapes(U630) Finding the surface area and volume of similar shapes(U110)	Writing algebraic proofs(U582) Solving geometric problems using vectors(U781) Geometric proofs with vectors(U560)	Geometric proofs with angle facts(U471) Geometric proofs with congruence and similarity(U887) Proving the circle theorems(U807)
Year 11 (Foundation)	Unit	Revision										
	Skills											
Year 11 (Higher)	Unit	Revision										
	Skills											