Maths Learning Journey Year 7

Temperance Term

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	
Topic	**Baseline Assessment**	**Number sense and calculations**	**Number sense and calculations**	**Number sense and calculations**	**Number sense and calculations**	**Number sense and calculations**	**Number sense and calculations**	**Number sense and calculations**	
Challenge Objective and Content (for all learners)		Number sense Using number lines(M763) Integer place value(M704) Decimal place value(M522) Ordering negative numbers(M527) Rounding integers(M111) Rounding decimals(M431)	Adding and subtracting Adding integers(M928) Adding decimals(M429) Subtracting integers(M347) Subtracting decimals(M152)	Multiplying 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)	Dividing 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)	Calculating with negative numbers Adding and subtracting with negative numbers(M106) Multiplying and dividing with negative numbers(M288)	Order of operations Calculating with roots and powers(M135) Using the correct order of operations(M521)	Order of operations Using the commutative laws(M952) Using the associative laws(M409)	HALF TERM
Inspire Opportunities									
Assessment Opportunities								Progress check No.1	

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	
Topic	**Expressions and equations**	**Expressions and equations**	**Expressions and equations**	**Measures**	**Measures**	**Assessment Term 1**	
Challenge Objective and Content (for all learners)	Expressions 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)	Substitution 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 Solving equations with one step(M707) Solving equations of the form $ax+b=c$(M634) Solving equations of the form $x/a+b=c$(M647)	Time Converting units of time(M515) Using clocks(M892) Calculating with time(M627) Using timetables(M963) Using calendars(M747)	Measures Estimating and measuring length, mass and capacity(M828) Converting units of length, mass and capacity(M774) Using appropriate units(M487)	Revision and assessment	CHRISTMAS
Inspire Opportunities				Explore how time is not decimal	Explore the difference between the metric system and imperial system		
Assessment Opportunities						Formal assessment	

Maths Learning Journey Year 7

Justice Term

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	
Topic	**2D shapes**	**Perimeter and area**	**Perimeter and area**	**Perimeter and area**	**Coordinates**	**Factors, multiples and primes**	HALF TERM
Challenge Objective and Content (for all learners)	Line and shape properties Line properties(M814) Shape properties(M276) Symmetry(M523)	Perimeter Finding perimeters using grids(M920) Finding the perimeter of rectangles and simple shapes(M635) Finding the perimeter of compound shapes(M690)	Area Finding areas using grids(M900) Finding the area of rectangles(M390) Finding the area of compound shapes(M269)	Area Finding the area of triangles(M610) Finding the area of compound shapes containing triangles(M996)	Coordinates and shapes Reading and plotting coordinates(M618) Solving shape problems involving coordinates(M230)	Factors and multiples Finding the lowest common multiple(M227) Finding factors and using divisibility tests(M823) Finding the highest common factor(M698)	
Inspire Opportunities	Shape names – prefixes and suffixes			Maximising area while minimising perimeter	Create an image following coordinate instructions	Odd and even amounts of factors	
Assessment Opportunities	Progress check No. 2					Progress check No. 3	

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	
Topic	**Factors, multiples and primes**	**Fractions**	**Fractions**	**Fractions**	**Brackets**	**Assessment Term 2**	EASTER
Challenge Objective and Content (for all learners)	Primes Finding prime numbers(M322) Prime factor decomposition(M108)	Writing and comparing fractions Finding fractions of shapes(M158) Constructing fractions(M939) Finding equivalent fractions(M410)	Writing and comparing fractions Simplifying fractions(M671) Ordering fractions(M335) Converting between mixed numbers and improper fractions(M601)	Adding and subtracting fractions Adding and subtracting fractions(M835) Adding and subtracting mixed numbers(M931)	Single brackets Using the distributive law(M637) Expanding single brackets(M237) Expanding single brackets and simplifying expressions(M792) Factorising into one bracket(M100)	Revision and assessment	
Inspire Opportunities	Euclid's proof of infinite primes						
Assessment Opportunities			Progress check No. 4			Formal assessment	

Maths Learning Journey Year 7

Courage Term

	Week 1	Week 2	Week 3	Week 4	Week 5	
Topic	**Angles**	**Angles**	**Handling data and statistical diagrams**	**Handling data and statistical diagrams**	**Handling data and statistical diagrams**	
Challenge Objective and Content (for all learners)	Angles Types of angles(M502) Estimating angles(M541) Measuring angles(M780) Drawing angles(M331)	Finding unknown angles Angles on a line and about a point(M818) Vertically opposite angles(M163) Angles in triangles(M351)	Averages and range Calculating the range(M328) Calculating the median(M934) Finding the mode(M841) Calculating the mean(M940)	Tables and charts 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 presenting data Collecting and recording data using tables(M945) Finding averages from frequency tables(M127) Choosing suitable averages and solving problems(M440)	HALF TERM
Inspire Opportunities			Use of averages in real life		Real life data	
Assessment Opportunities	Progress check No. 5					

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	
Topic	**Proportion**	**Fractions, decimals and percentages**	**Fractions, decimals and percentages**	**Fractions, decimals and percentages**	**Probability**	**Assessment Term 3**	
Challenge Objective and Content (for all learners)	Proportion word problems Solving proportion problems(M478)	Multiplying and dividing fractions Reciprocals(M216) Multiplying fractions(M157) Dividing fractions(M110) Multiplying with mixed numbers(M197) Dividing with mixed numbers(M265)	Fractions of an amount Fractions of amounts without a calculator(M695) Fractions of amounts with a calculator(M684)	Fractions, decimals and percentages 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)	Theoretical probability 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)	Revision and assessment	SUMMER
Inspire Opportunities					Probability in real life Monty Hall problem		
Assessment Opportunities	Progress check No. 6					Progress check No. 7 Formal assessment	

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