Image: Processing Procestage Procestrepressing Processing Processing Processing Process				
Whole Number   Rounding   Multiply and divide whole numbers by single digit or by 10,100, 1000     Communicating Methods   Use add (+), subtract (-), multiply (x) or divide (÷) to solve problems (revision)     BODMAS   Order of operations (BODMAS) plus use of brackets     BODMAS   Use correct terminology to describe fractions and place value for decimals (revision)     Decimals   Add, subtract, multiply and divide a decimal places (max 3)     Equivalent fractions and simplest form   Equivalent conversion between common fractions, decimals and percentages     Fractions, Decimals and Percentages   Fraction of a quantity   Calculate fractions of a quantity     Add and subtract fractions   Add and subtract fractions with same denominator (revision)     Mixed number fractions   Convert between mixed number and improper (top heavy) fractions     Add, subtract, multiply & divide - with/without mixed numbers   Add and subtract fractions with different denominators, including mixed numbers     Multiply and divide fractions including mixed numbers   Calculate the percentage of a number with and without a calculator     Percentages   Express a quantity as a percentage of another.	October		Rounding	Round to the nearest whole number (revision)
Number   Rounding   Multiply and divide whole numbers by single digit or by 10,100, 1000     Vommunicating Methods   Use add (+), subtract (-), multiply (x) or divide (÷) to solve problems (revision)     BODMAS   Order of operations (BODMAS) plus use of brackets     BODMAS   Use correct terminology to describe fractions and place value for decimals (revision)     Decimals   Add, subtract, multiply and divide a decimal by a whole number and decimal     Rounding   Round to number of decimal places (max 3)     Equivalent fractions and simplest form   Equivalent conversion between common fractions, decimals and percentages     Fractions, Decimals and Percentages   Fraction of a quantity   Calculate fractions with same denominator (revision)     Mixed number fractions   Add and subtract fractions   Add and subtract fractions with different denominators, including mixed numbers     Add, subtract, multiply & divide - with/without mixed numbers   Add and subtract fractions with different denominators, including mixed numbers     Percentages   Calculate the percentage of a number with and without a calculator     Percentages   Express a quantity as a percentage of another.			Rounding	Round to the nearest 10, 100, 1000 (revision)
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PTUDE Decimals Add, subtract, multiply and divide a decimal by a whole number and decimal   Rounding Round to number of decimal places (max 3)   Equivalent fractions and simplest form Equivalent conversion between common fractions, decimals and percentages   Percentages Fraction of a quantity Calculate fractions with same denominator (revision)   Mixed number fractions Convert between mixed number and improper (top heavy) fractions   Add, subtract, multiply & divide - with/without mixed numbers Add and subtract fractions with different denominators, including mixed numbers   Multiply and divide fractions including mixed numbers Calculate the percentage of a number with and without a calculator   Percentages Express a quantity as a percentage of another.			Communicating Methods	Use add (+), subtract (-), multiply (x) or divide (÷) to solve problems (revision)
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Fractions, Equivalent fractions and simplest form Equivalent conversion between common fractions, decimals and percentages   Fractions, Equivalent fractions and simplest form Equivalent fractions   Percentages Fraction of a quantity Calculate fractions with same denominator (revision)   Mixed number fractions Mixed number fractions Convert between mixed number and improper (top heavy) fractions   Add, subtract, multiply & divide - with/without mixed numbers Add and subtract fractions with different denominators, including mixed numbers   Multiply and divide fractions including mixed numbers Calculate the percentage of a number with and without a calculator   Percentages Express a quantity as a percentage of another.			Decimals	Add, subtract, multiply and divide a decimal by a whole number and decimal
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Fractions, Decimals and PercentagesFraction of a quantityCalculate fraction of a quantityAdd and subtract fractionsAdd and subtract fractions with same denominator (revision)Mixed number fractionsConvert between mixed number and improper (top heavy) fractionsAdd, subtract, multiply & divide - with/without mixed numbersAdd and subtract fractions with different denominators, including mixed numbersMultiply and divide fractions including mixed numbersCalculate the percentage of a number with and without a calculatorPercentagesExpress a quantity as a percentage of another.	ust			Equivalent conversion between common fractions, decimals and percentages
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Percentages Fraction of a quantity Calculate fraction of a quantity   Decimals and Percentages Add and subtract fractions Add and subtract fractions with same denominator (revision)   Mixed number fractions Convert between mixed number and improper (top heavy) fractions   Add, subtract, multiply & divide - with/without mixed numbers Add and subtract fractions with different denominators, including mixed numbers   Multiply and divide fractions including mixed numbers Calculate the percentage of a number with and without a calculator   Percentages Express a quantity as a percentage of another.	βl			Simplify fractions
Percentages Add and subtract fractions Add and subtract fractions with same denominator (revision)   Mixed number fractions Convert between mixed number and improper (top heavy) fractions   Add, subtract, multiply & Add and subtract fractions with different denominators, including mixed numbers   divide - with/without mixed Multiply and divide fractions including mixed numbers   Multiply and divide fractions including mixed numbers Calculate the percentage of a number with and without a calculator   Percentages Express a quantity as a percentage of another.			Fraction of a quantity	Calculate fraction of a quantity
Calculate the percentage of a number with and without a calculator   Percentages Express a quantity as a percentage of another.			Add and subtract fractions	Add and subtract fractions with same denominator (revision)
Calculate the percentage of a number with and without a calculator   Percentages Express a quantity as a percentage of another.	2		Mixed number fractions	Convert between mixed number and improper (top heavy) fractions
Calculate the percentage of a number with and without a calculator   Percentages Express a quantity as a percentage of another.	TEI		divide - with/without mixed	Add and subtract fractions with different denominators, including mixed numbers
Percentages Express a quantity as a percentage of another.				Multiply and divide fractions including mixed numbers
			Percentages	Calculate the percentage of a number with and without a calculator
Calculate percentage increase and decrease				Express a quantity as a percentage of another.
Calculate percentage increase and decrease				Calculate percentage increase and decrease

)er	Integers	Rules of negative numbers	Rules to add (+), subtract (-), multiply (x) and divide (÷) negative (-ve) and positive (+ve) numbers
		Scales with negative numbers	Read and use a scale with negative numbers on it
ecember		Problem solving using negative numbers	Problem solving using negative numbers including real life examples
)eC	Factors & Multiples	Multiples	Lowest Common Multiple
		Factors	Highest Common Factor
to			Prime Factors
October	Powers & Roots	Powers	Understand whole number powers and calculate them, with and without calculator
cto		Roots	Understand roots and calculate with and without calculator
н. Т	Expressions and Equations	Collect like terms and simplify expressions	Collect like terms involving more than one variable
TERM 2		Evaluate substitutions	Substitute values into expressions, including multiple terms and squares and square roots
		Constructing and solving	Solve simple equations - term on one side only e.g., 5x + 6 = 31
		simple equations	Solve equations with term on both sides e.g., $3x + 4 = 2x - 5$
	Problem Solving	Problem Solving	Problem Solving

		Time intervals	Calculate time intervals - 12 and 24 time (revision)
	Time	Convert units of time	Convert hours and minutes to hours in decimal form (and reverse)
			Calculate speed, distance or time given the other two using simple time periods
		Speed, Distance & Time	Calculate speed, distance or time given the other two using time intervals and/or
			hours and minutes within problems
		Terminology	Types of angles (revision) - acute, straight, obtuse, right, reflex, full turn
Ч	Angles	Naming angles	Name angles using 3 letters (revision)
rc		Angles in 2D shapes	Draw and measure angles using a protractor
٨a		Line/reflection symmetry	Line/reflection symmetry - line on or out with shape
2		Rotational symmetry	Rotational symmetry - using centre as axis of rotation
tc	Symmetry	Rotational symmetry	Rotational symmetry - using point out with shape as axis of rotation
<mark>г</mark>	Symmetry	Tessellation	Tessellation of simple 2D shapes to produce tiling patterns
na		Transformation of point or	Reflect, translate, or rotate a point or simple 2D shape within a set of axes and
nu		shape	describe coordinates
- January to March	Properties of 2D shapes	Draw/properties of 2D	Identify and draw 2D shapes
۲ ۲		shapes (revision)	
TERM		Properties of 2D shapes	Properties of 2D shapes - square, rectangle, parallelogram, rhombus, kite, triangles (scalene, equilateral, isosceles)
LER	Perimeter	Convert between metric	Know metric units of measurement (mm, cm, m, km) and convert between
		units of measurement	Coloulate merimeter of 2D observe including comparity aboves
		Perimeter of 2D shapes	Calculate perimeter of 2D shapes including composite shapes
	Area	Terminology of area units	Know metric units of measurement (mm <sup>2</sup> , cm <sup>2</sup> , m <sup>2</sup> , km <sup>2</sup> )
		Area of 2D shapes - using	Use a formula to find the area of 2D shapes - square, rectangle, triangle, kite,
		formulae	parallelogram, rhombus
		Area of composite 2D	Calculate the area of composite 2D shapes, including parallelogram, kite and
		shapes	trapezium approached as composite shapes

	Volume	Weight	Convert between grams and kilograms
		Terminology of volume units	Know metric units of measurement (mm <sup>3</sup> , cm <sup>3</sup> , m <sup>3</sup> , km <sup>3</sup> )
		Nets of 3D shapes	Know properties of 3D shapes and draw nets of cubes, cuboids, triangular prisms
		Volume of 3D shapes - using formulae	Use a formula to find the volume of 3D shapes - cube, cuboid, prisms
		Convert between solid and liquid volumes	Know that 1cm <sup>3</sup> = 1ml, and therefore 1 litre = 1000cm <sup>3</sup> and use in problems

o May	Coordinates	Terminology	Revision - axes are labelled x and y; coordinates are in the form (x, y); the 'origin' is (0, 0)
		Coordinates in first quadrant	Read/describe coordinates in the first quadrant in the form (x, y)
			Plot coordinates on a set of axes (first quadrant only)
		Coordinates in 4 quadrants	Plot and read coordinates in the form (x, y) an all 4 quadrants (negative coordinates)
l to	Data and Analysis	Graphs and charts	Read and understand graphs and charts
- April			Recognise misleading and biased data
		Graphs/Charts inc pie charts using discrete and grouped data	Draw graphs/charts (discrete data): bar, line, pictogram, frequency table, pie
14			Draw graphs/charts (grouped data): bar, line, pictogram, frequency table, pie
2 2 2	Chance and Uncertainty	Probability	Probability can be written as a fraction, decimal, or percentage
TERM			Calculate probability of a simple event
			Calculate probability of an event
			Compare different events to calculate best chance
	Project	Project	Famous Mathematician