

Driver: History

Main learning Challenge: Egyptians: Awesome or Awful?

	Week 1 Multiplication/ Division	Week 2 Adding and subtracting fractions	Week 3 Units of measure	Week 4 FDP	Week 5 Area/perimet er	Week 6 Data/statist ics	Week 7 Algebra	Week 8 3D shapes
Maths Learning Challenge	<p>Y6 Can you multiply multi-digit numbers up to 4 digits by a two-digit whole number using a formal written method?</p> <p>Can you multiply 1 digit numbers with up to 2 decimal places by whole numbers?</p> <p>Can you divide numbers up to 4 digits by a two-digit whole number using the formal written method of long division?</p> <p>Y5 - Can you multiply numbers up to 4</p>	<p>Y6 Can you add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions?</p> <p>Y5 Can you solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why?</p>	<p>Y6 Can you solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate?</p> <p>Can you use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to three decimal places?</p>	<p>Y6 Can you recall and use equivalence between simple fractions, decimals and percentages, including in different contexts?</p> <p>Y5 Can you identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths?</p> <p>Can you read and write decimal numbers as fractions?</p>	<p>Y6 Can you recognise when it is possible to use formulae for area and volume of shapes?</p> <p>Can you use simple formulae?</p> <p>Y5 Can you calculate and compare the area of rectangles (including squares), and including using standard units, square centimetres (cm²) and square metres (m²) and estimate the area of irregular shapes?</p> <p>Can you measure and calculate</p>	<p>Y6 Can you interpret and construct pie charts and line graphs and use these to solve problems?</p> <p>Can you calculate and interpret the mean as an average?</p> <p>Y5 Can you solve comparison, sum and difference problems using information presented in a line graph?</p> <p>Can you complete, read</p>	<p>Y6 Can you express missing number problems algebraically?</p> <p>Can you find pairs of numbers that satisfy an equation with unknown numbers?</p> <p>Y5 Can you round any number up to 1,00,000 to the nearest 10, 100, 1000, 10,000 and 100,000?</p>	<p>Y6 Can you recognise, describe and build simple 3-D shapes, including making nets?</p> <p>Can you draw 2-D shapes using given dimensions and angles?</p> <p>Y5 Can you identify 3-D shapes, including cubes and other cuboids, from 2-D representations?</p>

	<p>digits by a one-digit number using a formal written method?</p> <p>Can you divide numbers up to 3 digits by a one-digit number using a written method and including remainders appropriately for the context?</p>		<p>Y5</p> <p>Can you convert between different units of metric measure (for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre)?</p>		<p>perimeter of composite rectilinear shapes?</p>	<p>and interpret information in tables, including timetables?</p>	<p>Can you interpret negative numbers?</p> <p>Can you read, write, order and compare numbers with up to 3 decimal places?</p> <p>Can you read Roman numerals up to 1,000?</p>	
<p>Basic Skills Focus</p>	<p>Multiply and divide numbers by 10, 100 and 1000 giving answers up to 3 decimal places</p> <p>Knowledge of multiplication facts to 12x12.</p> <p>Knowledge of multiplication facts and inverse (fact families)</p>	<p>Common denominators (LCM)</p>	<p>Read, write, order and compare numbers with up to 3 decimal places</p> <p>Multiply and divide by 10/100/1000</p>	<p>Equivalence between simple fdp</p> <p>Converting into 'out of 100'</p>	<p>Multiplication facts</p> <p>Y6 - formula for area and introduce formula for area of triangle/volume</p>	<p>Reading scales</p>	<p>Y6 - inverse number facts/machines</p> <p>Y5 - Add and subtract numbers mentally with increasingly large numbers.</p>	<p>Properties of 2D and 3D shapes</p>
<p>Number</p>	<p>Multiplication facts</p> <p>Division facts</p>	<p>Mental addition and subtraction</p>		<p>HCF/LCM</p> <p>Finding common</p>	<p>Find area of certain</p>	<p>Y5 - time focus (units of</p>	<p>Missing numbers</p>	<p>Names of shapes and</p>

		Multiplication facts Y5 - Place value		denominators Converting different fractions to 'out of 100'.	rectangles/composite shapes	time/telling time)	'I start with a number...' Y5 - vocab associated with addition and subtraction	the link to no of sides, edges, angles, etc.
Calculation	Y6 - 4 digit x 2 digit and 1 digit x number with up to 2 d.p. 4 digit divided by 2 digit Y5 - 4 digit x 1 digit 3 digit divided by 1 digit	Y6 - Adding and subtracting fractions cards Y5 -addition and subtraction methods	Y6 - Methods of conversion: converting units of measure up to 3 d.p. Y5 - Methods of conversion: converting simple units of measure	Y6 - comparing/ordering /converting fdp Y5 - decimals into fractions (begin to think about simplest form)	Y6 - use formula to work out area of different shapes (rectangles/triangles/parallelograms) Y5 - find area of rectangles. Estimate area of irregular shapes.	Y6 - Simple calculations based on graph data Finding mean of a set of data Y5 - Find the difference calculations Calculations with time	Y6 - all 4 operations using inverse/missing numbers, etc. Y5 - range of different multi-step word problems in context.	Link to area and volume of 2D and 3D shape.
Shape and Measure	Area of land use Map use - scales (e.g. 4 times smaller on a map)	Fractions of shapes that are shaded	Measuring and converting		Area/volume of different shapes	Reading and understanding graphs and tables	Area and perimeter missing numbers in formulae	Make christmas decorations
Problem solving	Write own word problems using multiplication calculations given	Y6 - Egyptians word problems Y5 - Egyptians addition and subtraction word problems.	Y6 - pyramids challenge Y5 - two step word problems involving conversions of units of measure	Y6 - Spot the mistake and correct it Y5 - Missing number problems	Y6 - SATS style word problems Y5 - Challenge: How many Great Pyramids would fit in Derbyshire?	Y6 - SATS style word problems Y5 - Conversions word problems	Y6 - SATs style questions Y5 - Egyptian problems with number	Design Christmas decoration on paper - fill in all details (length, width, height, volume) and draw net.

								Y6 - twinkl making pyramids challenge
Generalising/Reasoning	Y5 - Spot the mistake Y6 - Create 'algorithm' for solving multiplication. Correct errors in lines of code	Y5 - Mark the word of a pupil and give feedback for each questions. Y6 -	Y5 - Y6 -	Y5 - \approx symbols to compare Fractions and decimals. Y6 - Justify a fact e.g '0.65 is the same as 65/100' Prove how they know.	Y5 - Which shapes have same/different area and perimeter? Y6 - Odd one out and why.	What's gone wrong?	Create own formula from facts provided	Use design to create 3D decoration, explaining any problems with original design idea.
Key Vocabulary	Multiplication, multiply, time, product, of, divide, division, share, equally, remainder, decimal point, place value.	Denominator, numerator, fractions, common multiples.		Equivalent, denominator, numerator, hcf, lcm, out of 100, percent, fraction, decimal, place value	Area, squared, volume, cubed, formula, length, width, height, multiply		Algebra, missing number, unknown, inverse, backwards	
Wider curriculum opportunities/links	Journeys to Egypt - looking at time, units of measure, etc.		Pyramids and nets		Create graphs and tables about Egyptian Gods.		Roman Numerals and Hieroglyphics	
Pre teaching	Use of times tables Y6 - ensure solid understanding of 4 digit x 1 digit.	Y5 - How to convert a fraction to an equivalent fraction using common denominator. Y6 - Converting to same denominators. Refresh		Y5 - % means 'out of 100' Decimals less than 1 can be represented as 'out of 100' Y6 - Refresh simple equivalence and 'how do you know?'	Y5 - recap area of rectangle using 1 digit x 1 digit Y6 - Recap how to find area of rectangle. Begin to use formula to find this.			Discuss vocabulary used and look at 2D and 3D shapes to ensure understanding of vocabulary.

		converting to fractions with same denominator before adding or subtracting.						
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