

Medium term planning – Maths No Problem

Year 4 / 5

Spring Term 2022

Mathematical aspect		Curriculum statement	Linked to MNP planning - Refer to year group to merge the lessons Yr 5 MNP planning are in grey. Y5 NC objectives in yellow highlight Refer to NCETM materials for subject knowledge and addition planning resources
Weeks 1-2	Fractions: Calculation	<p>To recognise and show equivalents</p> <p>To add and subtract fractions</p> <p>To calculate fractions of quantities</p> <p>To compare and order fractions, including mixed numbers</p>	<p><u>Chapter 6 for yr 4 and yr 5</u></p> <p>L1 Yr4 Counting in hundredths/ Yr 5 differentiate</p> <p>L2 Yr 4 writing mixed numbers/ Yr5 L2 writing improper fractions and mixed numbers</p> <p>L3 yr 4 Showing mixed numbers on a number line / yr 5 differentiate</p> <p>L4 Yr 4 Finding equivalent fractions/ L3 yr 5 finding equivalent fractions</p> <p>L5 yr 4 Finding equivalent fractions/ L4 yr 5 Comparing and ordering fractions</p> <p>L6 yr 4 Simplifying mixed numbers/ Yr 5 differentiate</p> <p>L7 y4 Simplifying improper fractions/ Yr 5 differentiate</p> <p>L8 yr 4 Adding fractions/ L8 yr 5 adding fractions</p> <p>L9 yr 4 adding fractions / L9 yr 5 adding fractions</p> <p>L11 yr 4 subtracting fractions/ L12 yr 5 subtracting fractions</p> <p>L12 yr 4 subtracting fractions/ L13 yr 5 subtracting fractions</p>
Weeks 3- 5	Fractions and decimals: tenths and hundredths	<p>To identify, represent and estimate numbers and decimals using different representations</p> <p>To round numbers</p> <p>To compare and order decimals</p> <p>To count up and down in tenths/ hundredths; recognise how tenths and hundredths arise</p>	<p><u>Chapter 8 yr 4 and chapter 7 yr 5 decimals</u></p> <p>L1 Yr 4 Writing tenths/ L2 yr 4 writing tenths</p> <p>L4 Yr 4 writing hundredths/ L5 yr writing hundredths</p> <p>L8 yr 4 writing decimals / L1 yr 5 writing decimals</p> <p>L6 Yr 4 writing hundredths/ L2 yr 5 reading and writing decimals</p> <p>L7 yr 4 writing hundredths/ L3 yr 5 reading and writing</p>

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		To recognise and write decimal equivalents	<p>decimals</p> <p>L9 yr4 comparing and ordering decimals/ L4 yr 5 comparing decimals</p> <p>L10 yr4 comparing and ordering decimals/ L5 yr 5 comparing decimals</p> <p>L11 yr4 comparing and ordering decimals/ L6 yr 5 comparing decimals</p> <p>L8 yr 5 Adding and subtracting decimals / L9 yr 5 Adding and subtracting decimals</p> <p>L10 Yr 5 Adding and subtracting decimals/ differentiate yr 4- money</p> <p>L11 y5 Adding and subtracting decimals/ differentiate yr 4 – money</p> <p>L12 yr 5 adding and subtracting decimals / differentiate yr 4</p> <p>L13 yr 5 adding and subtracting decimals/ differentiate yr 4</p> <p>L13 yr 4 rounding decimals/ L15 yr 5 rounding decimals</p> <p>L14 yr 4 rounding decimals/ yr 5 differentiate.</p>
Week 6	Money	<p>To add and subtract numbers using columnar methods</p> <p>To estimate the answer to a calculation and use inverse operations to check answers</p> <p>To solve addition and subtraction problems</p>	<p><u>Chapter 9 yr 4b – money</u></p> <p>L1 yr 4 Writing amounts of money/ L2 yr 4 writing amounts of money</p> <p>L4 rounding amounts of money/ differentiate yr 5</p> <p>L5 yr solving problems involving money/ differentiate yr 5</p> <p>L6 yr 4 solving problems involving money/ differentiate yr 5</p> <p>L7 yr 4 solving problems involving money/ differentiate yr 5</p>
Week 7	Statistics	To solve comparison, sum and difference problems using represented information	<p><u>Chapter 5 yr4 graphs / Chapter 5 yr 5 graphs</u></p> <p>L1 yr 4 drawing and reading picture graphs and bar graphs/ yr 5 differentiate</p> <p>L2 yr 4 drawing and reading bar graphs</p> <p>L3 yr 4 drawing and reading line graphs / L4 yr 5 Reading line graphs</p> <p>L4 yr 4 drawing and reading line graphs/ L7 yr 5 reading line graphs</p> <p>L1 yr 5 reading tables/ L2 yr 5 reading tables</p>

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Week 8	Area		<p><u>Chapter 11 yr 4 &amp; Chapter 12 yr 5 – area</u></p> <p>L1 yr 4 measuring the surface that an object covers/ L5 yr 5 measuring the area</p> <p>L2 yr measuring area/ L6 yr 5 Measuring area</p> <p>L3 yr 4 measuring area/ L7 yr 5 measuring the area</p> <p>L4 yr 4 Measuring area/ L8 yr 5measuring area</p> <p>L5 yr 4 measuring area/ L10 yr 5measuring area</p> <p>L6 yr 4 Measuring area/ L11 yr 5 estimating area</p>
Week 9	Geometry: Coordinate s and translation s	<p>To describe positions on a 2D grids as coordinates in the first quadrant</p> <p>To describe movements between positions as translations</p> <p>To plot specified points and draw sides to complete a given polygon</p>	<p><u>Chapter 13 yr &amp; Chapter 10 yr 5 – position and movement</u></p> <p>L1 yr 4 describing position / L2 yr 4 describing positions</p> <p>L3 yr 4 plotting point/ L1 yr 5 naming and plotting points</p> <p>L4 yr 4 describing movements/ L2 yr 5 describing translations</p> <p>L5 yr 4 describing movements / L4 yr 5 describing movement</p> <p>Roman numerals</p> <p>Chapter 14 yr 4 and chapter 14 year 5 = 1 lessons</p>
Week 10	Time	<p>To read, write and convert time between analogue and digital 12 and 24hr clocks</p> <p>To solve problems involving converting units of time</p>	<p><u>Chapter 7 yr 4 Time &amp; Chapter 11 yr 5 Measurement</u></p> <p>L1 yr 4 telling the time on a 24 hour clock/ yr 5 differentiate</p> <p>L2 yr 4 changing time in minutes to seconds/ L12 yr 5converting units of time</p> <p>L3 yr 4 Chaging time in hours to minutes/ L11 yr 5 Converting units of time</p> <p>L4 yr 4 solving problems on the duration of time/ differentiate for yr 5</p> <p>L5 yr 4 changing years to months and weeks to days/ L9 &amp; L10 yr 5 converting units of time</p>
Week 11	Properties of number	<p>To understand that cube numbers are products from multiplying the same three numbers Eg <math>10 \times 10 \times 10</math></p> <p>To understand prime numbers</p>	<p><u>Chapter 3 yr 5</u></p> <p>Yr 5 L4 finding prime numbers</p> <p>Yr 5 L5 finding square and cube numbers</p> <p><u>Chapter 10 yr 4 &amp; chapter 13 yr 5</u></p> <p>L4 yr 4 measuring volume / understanding the volume of solids</p> <p>L2 yr 5 finding the volume of solids/ L3 yr 5 finding the volume of solids</p>

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			L5 yr 4 measuring volume / L6 converting units of volume
Weeks 12	Written methods multiply		Yr 4 and yr 5 multiplying and dividing by 10, 100 and 100 (refer to autumn planning) Yr 4 multiply 2 and 3 digit numbers by a 1 digit number/ yr 5 multiply 3 and 4 digit numbers by a 1 digit number (refer to pages 164 & 173. (For year 5 pages 63 & 65- Autumn planning) Yr 4 multiplying 3 digit by 1 L10/ Yr 5 multiplying 2 digit by 2 digit page 71 Yr 5 multiplying 3 digits by 2 digit page 75/ yr 4 multiplying 3 digit by 1 digit linked to money problems
U & A	Week 10	P e r c e n t a g e s	To recognise the per cent symbol (%) and understand that per cent relates to “number of parts per hundred”
	Written methods division		