

Trinity Partnership Year 5 and 6 Maths Medium-Term Overview

This planning is based on The White Rose Scheme of Learning. The links to the short-term planning documents are shown in each block in the table below.

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Autumn	https://assets.whiterosemaths.com/fixed/wrm/2020/06/Year-5-and-6-Mixed-Age-Autumn-Block-1-Place-Value.pdf <u>Year 5/Year 6/Both</u> <u>Roman Numerals</u> <ul style="list-style-type: none"> • Roman Numerals to 1000 <u>Representing Numbers</u> <ul style="list-style-type: none"> • Numbers to 10,000 • Numbers to 100,000 • Numbers to one million • Numbers to ten million <u>Compare and Order</u> <ul style="list-style-type: none"> • Compare and order numbers to 100,000 • Compare and order numbers to one million • Compare and order any number <u>Rounding</u> <ul style="list-style-type: none"> • Round to nearest 10, 100 and 1,000 • Round numbers within 100,000 • Round numbers to one million • Round any number <u>Counting</u> <ul style="list-style-type: none"> • Counting in 10s, 100s, 1,000s, 10,000 and 100,000s <u>Negative Numbers</u> <ul style="list-style-type: none"> • Negative numbers on a number line (horizontal and vertical) • Counting through zero • Finding intervals across zero • Negative numbers in context (e.g. temperature) • Calculating 	https://assets.whiterosemaths.com/fixed/wrm/2020/06/Year-5-and-6-Mixed-Age-Autumn-Block-2-Four-operations.pdf <u>Year 5/Year 6/Both</u> <u>Addition and Subtraction</u> <ul style="list-style-type: none"> • Add whole numbers with more than 4-digits. • Subtract whole numbers with more than 4-digits • Inverse operations • Multi-step addition and subtraction problems fractions • Add and subtract whole numbers <u>Multiples</u> <ul style="list-style-type: none"> • Multiples • Common multiples <u>X and divide by multiples of 10</u> <ul style="list-style-type: none"> • Multiply by 10, 100 and 1,000 • Divide by 10, 100 and 1,000 • Multiples of 10, 100 and 1,000 <u>Multiplication</u> <ul style="list-style-type: none"> • Multiply 4-digits by 1-digit • Multiply 2-digits (area model) • Multiply 2-digits by 2-digits • Multiply 3-digits by 2-digits • Multiply 4-digits by 3-digits <u>Factors</u> <ul style="list-style-type: none"> • Factors • Common factors 	https://assets.whiterosemaths.com/fixed/wrm/2020/06/Year-5-and-6-Mixed-Age-Autumn-Block-3-Fractions.pdf <u>Year 5/Year 6/Both</u> <u>Equivalence and simplifying</u> <ul style="list-style-type: none"> • Equivalent fractions • Simplify fractions • Fractions on a number line <u>Improper fractions and mixed numbers</u> <ul style="list-style-type: none"> • Improper to mixed fractions • Mixed fractions to improper fractions <u>Counting in fractions</u> <ul style="list-style-type: none"> • Number sequences <u>Compare and order fractions</u> <ul style="list-style-type: none"> • Compare and order fractions less than 1 • Compare and order fractions greater than 1 • Compare and order fractions by finding a common denominator • Compare and order fractions by finding a common numerator <u>Addition and Subtraction of fractions</u> <ul style="list-style-type: none"> • Add fractions within 1 • Add 3 or more fractions • Add mixed numbers • Subtract fractions • Subtract mixed numbers • Subtract-breaking the whole • Subtract 2 mixed numbers • Add and subtract fractions • Mixed addition and subtraction 									

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Spring	<p>https://assets.whiterosemaths.com/fixed/wrm/2020/04/Year-5-and-6-Mixed-Age-Spring-Block-1-Fractions-and-Ratio.pdf</p> <p>Year 5 and 6 are covering different topics in this unit according to the White Rose planning. It is suggested that skills common to both year groups (multiplication, division, simplifying) be covered in starters as a whole class. This unit is a chance for Year 5 to consolidate their learning of fractions. Teachers to decide where gaps need to be filled, as a lot of fraction content was covered in autumn term. Year 6 make the link from fractions to ratio as they are introduced to this new concept. I would suggest exposing Year 5 to ratio at this point also so that this can be consolidated when they complete this unit next year.</p> <p><u>Year 5/Year 6/Both</u> <u>Fractions</u> Using knowledge of previous term's learning on fractions, consider which aspects children may need to spend longer on to deepen understanding.</p> <p><u>Ratio</u></p> <ul style="list-style-type: none"> Using ratio language Ratio and fractions Introducing the ratio symbol Calculating ratio Using scale factors Calculating scale factors Ratio and proportion problems 	<p>https://assets.whiterosemaths.com/fixed/wrm/2019/10/Year-5-and-6-Mixed-Age-Spring-Block-2-Decimals-and-Percentages.pdf</p> <p><u>Year 5/Year 6/Both</u> <u>Decimals up to 3 d.p.</u></p> <ul style="list-style-type: none"> Decimals up to 2 d.p. Decimals as fractions Understand thousandths Thousandths as decimals Three decimal places <p><u>Round, order and compare</u></p> <ul style="list-style-type: none"> Rounding decimals Compare and order decimals <p><u>Multiply and divide by powers of 10</u></p> <ul style="list-style-type: none"> Multiplying decimals by 10, 100 and 1,000 Dividing decimals by 10, 100 and 1,000 Multiply by 10, 100 and 1,000 Divide by 10, 100 and 1,000 <p><u>Multiply and Divide</u></p> <ul style="list-style-type: none"> Multiply decimals by integers Divide decimals by integers Division to solve problems <p><u>Fractions to decimals</u></p> <ul style="list-style-type: none"> Fractions to decimals <p><u>Percentages</u></p> <ul style="list-style-type: none"> Understand percentages Percentages as decimals and fractions Equivalent F, D, P Fractions to decimals Order F, D, P Percentage of an amount Percentages – missing values 	<p>https://assets.whiterosemaths.com/fixed/wrm/2019/10/Year-5-and-6-Mixed-Age-Spring-Block-3-Decimals-and-Algebra.pdf</p> <p>Year 5 and 6 are studying different topics in this units. Teachers may decide to recap adding and subtracting decimals with Year 6 too. This can then be applied throughout other units, including algebra. Teacher may also choose to expose Year 5 to algebra.</p> <p><u>Year 5/Year 6/Both</u> <u>Decimals</u></p> <ul style="list-style-type: none"> Adding decimals within 1 Subtracting decimals within 1 Complements to 1 Adding decimals- crossing the whole Adding decimals (same d.p.) Subtracting decimals (same d.p.) Adding decimals (different d.p.) Subtracting decimals (different d.p.) Adding and subtracting wholes and decimals Decimal sequences <p><u>Algebra</u></p> <ul style="list-style-type: none"> Find a rule- one step Find a rule- two steps Forming expressions Substitution Formulae Forming equations Simple one-step equations Solve two-step equations Find pairs of values Enumerate possibilities 	<p>https://assets.whiterosemaths.com/fixed/wrm/2019/10/Year-5-and-6-Mixed-Age-Spring-Block-4-Converting-Units.pdf</p> <p><u>Year 5/Year 6/Both</u> <u>Metric</u></p> <ul style="list-style-type: none"> Kilograms and Kilometres Milligrams and millilitres Metric Units Metric measures Convert metric measures Calculate with metric measures <p><u>Imperial</u></p> <ul style="list-style-type: none"> Imperial units Imperial measures <p><u>Time</u></p> <ul style="list-style-type: none"> Converting units of time 	<p>https://assets.whiterosemaths.com/fixed/wrm/2019/10/Year-5-and-6-Mixed-Age-Spring-Block-5-Perimeter-Area-and-Volume.pdf</p> <p><u>Year 5/Year 6/Both</u> <u>Perimeter</u></p> <ul style="list-style-type: none"> Measure perimeter Calculate perimeter Area and perimeter (focus on perimeter questions) <p><u>Area</u></p> <ul style="list-style-type: none"> Area of rectangles Area of compound shapes Area of irregular shapes Shapes- same area Area and perimeter (focus on area questions) Area of triangles Area of parallelograms <p><u>Volume</u></p> <ul style="list-style-type: none"> What is volume? Compare volume Estimate volume Volume – counting cubes Volume of a cuboid <p><u>Capacity</u></p> <ul style="list-style-type: none"> Estimate capacity 	<p>https://assets.whiterosemaths.com/fixed/wrm/2019/10/Year-5-and-6-Mixed-Age-Spring-Block-6-Statistics.pdf</p> <p><u>Year 5/Year 6/Both</u> <u>Line Graph</u></p> <ul style="list-style-type: none"> Read and interpret line graphs Draw line graphs Use line graphs to solve problems Read and interpret line graphs Draw line graphs Use line graphs to solve problems <p><u>Tables</u></p> <ul style="list-style-type: none"> Read and interpret tables Two-way tables Timetables <p><u>Circles</u></p> <ul style="list-style-type: none"> Parts of a circle (circumference, diameter, radius) Relationship between circumference and radius <p><u>Pie Charts</u></p> <ul style="list-style-type: none"> Read and interpret pie charts Pie charts with percentages Draw pie charts <p><u>Averages</u></p> <ul style="list-style-type: none"> The mean 						

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Summer	https://assets.whiterosemaths.com/fixed/wrm/2020/03/2020/03/Year-5-and-6-Mixed-Age-Guidance-Summer-Block-1-Properties-of-Shape.pdf <u>Year 5/Year 6/Both</u> <u>Measure angles</u> <ul style="list-style-type: none"> Measuring angles in degrees Measuring with a protractor Measuring with a protractor Measure with a protractor <u>Angles</u> <ul style="list-style-type: none"> Angles on a straight line Angles around a point Introduce angles Calculate angles Vertically opposite angles <u>Angles in shapes</u> <ul style="list-style-type: none"> Lengths and angles in shapes Angles in a triangle Angles in quadrilaterals <u>Polygons</u> <ul style="list-style-type: none"> Regular and irregular polygons Angles in polygons <u>Drawing Shapes</u> <ul style="list-style-type: none"> Draw lines and angles accurately Drawing shapes accurately <u>3-D Shapes</u> <ul style="list-style-type: none"> Reasoning about 3-D shapes Nets of 3-D shapes 	https://assets.whiterosemaths.com/fixed/wrm/2020/03/2020/03/Year-5-and-6-Mixed-Age-Guidance-Summer-Block-2-Position-and-Direction.pdf <u>Year 5/Year 6/Both</u> <u>Position</u> <ul style="list-style-type: none"> Position in the first quadrant The first quadrant Four quadrants <u>Reflection</u> <ul style="list-style-type: none"> Reflection Reflection with co-ordinates Reflections <u>Translation</u> <ul style="list-style-type: none"> Translation Translation with co-ordinates Translations 	https://assets.whiterosemaths.com/fixed/wrm/2020/03/2020/03/Year-5-and-6-Mixed-Age-Guidance-Summer-Block-3-SATS-and-Consolidation.pdf <u>SATs</u> Using assessment data and knowledge of children's gaps in learning, teachers can revisit learning with children in order to consolidate. During this time, Year 6 will be undertaking their SATs. After this, teachers may choose to consolidate learning to ensure deep understanding of the curriculum.	<u>Investigations and consolidation.</u> <i>Using assessment data and knowledge of children's gaps in learning, teachers can revisit learning with children in order to consolidate. Suggestions of time on the White Rose long-term overview are 3 weeks of four operations consolidation, 2 weeks of fractions and 2 weeks of shape, space and measure. However, teachers should use their knowledge of their class to adjust these timings appropriately.</i> I would suggest looking at the Year 5 single year group overview on White Rose to see where additional planning has been put in place. Definitely ensure that there is a focus on number and calculation, as this is very light so far this term. These Year 5 units may support revision/consolidation in this area: https://assets.whiterosemaths.com/fixed/wrm/2020/08/Year-5-Autumn-block-2-Addition-and-Subtraction.pdf https://assets.whiterosemaths.com/fixed/wrm/2020/08/Year-5-Autumn-block-4-Multiplication-and-Division.pdf https://assets.whiterosemaths.com/fixed/wrm/2020/12/Year-5-Spring-block-1-Multiplication-and-Division.pdf https://assets.whiterosemaths.com/fixed/wrm/2020/12/Year-5-Spring-block-2-Fractions.pdf https://assets.whiterosemaths.com/fixed/wrm/2020/12/Year-5-Spring-block-3-Decimals-and-Percentages.pdf https://assets.whiterosemaths.com/fixed/wrm/2021/03/Year-5-Summer-Block-1-Decimals.pdf								