

Year 3.1- Number and Place Value	2 weeks- Autumn 1
<ul style="list-style-type: none"> Identify, represent and estimate numbers using different representations. Find 10 or 100 more or less than a given number; recognise the place value of each digit in a three digit number (hundreds, tens, ones). Compare and order numbers up to 1000 Read and write numbers up to 1000 in numerals and in words. Solve number problems and practical problems involving these ideas. Count from 0 in multiples of 50 and 100 	<u>Useful Links</u> Vocabulary document White Rose- Reasoning Mastery Year 3 booklet Interactive Teaching Programs Topmarks- diennes and coins nrich
<u>Vocabulary:</u> relationship, one hundred more, one hundred less, multiples, approximate,	

Year 3.2- Addition and subtraction/Money	4 weeks- Autumn 1
<p>Number and place value</p> <ul style="list-style-type: none"> Read and write numbers up to 1000 in numerals and in words. Solve number problems and practical problems involving these ideas. <p>Addition and subtraction</p> <ul style="list-style-type: none"> Add and subtract numbers mentally, including: a three-digit number and ones; a three-digit number and tens; a three digit number and hundreds. Add and subtract numbers with up to three digits. Estimate the answer to a calculation and use inverse operations to check answers. Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction. <p>Money</p> <ul style="list-style-type: none"> Add and subtract amount of money to give change, using both £ and p in practical contexts. 	<u>Useful Links</u> Vocabulary document Calculations Policy White Rose- Reasoning Mastery Year 3 booklet Interactive Teaching Programs Topmarks- diennes and coins nrich
<p><u>Vocabulary:</u> Addition and subtraction: All previous vocabulary (see calculations guidance) hundreds boundary, increase, vertical, carry, exchange, decrease, hundreds, value, digit, method, approximately Money: Change, approximate, approximately, relationship, more/most expensive, cheap, costs less, cheaper, less/least expensive, how much...? how many...? total, amount, value, worth</p>	

Year 3.3- Measures/ addition and subtraction	2 week – Autumn 2
<p>Measures</p> <ul style="list-style-type: none"> Measure, compare, add and subtract: lengths (m/cm/mm), 	<u>Useful Links</u> Vocabulary document

<p>mass (kg/g) and volume (l/ml)</p> <ul style="list-style-type: none"> • Measure the perimeter of simple 2D shapes. • Continue to measure using the appropriate tools and units, progressing to using a wider range of measures, including comparing and using mixed and simple equivalents of mixed units. <p>Addition and subtraction</p> <ul style="list-style-type: none"> • Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction. 	<p>Calculations Policy White Rose- Reasoning Mastery Year 3 booklet Interactive Teaching Programs Topmarks- diennes and coins nrich</p>
<p><u>Vocabulary:</u> Addition and subtraction: All previous vocabulary (see calculations guidance) hundreds boundary, increase, vertical, carry, exchange, decrease, hundreds, value, digit, method, approximately Measure: distance apart/between, distance to... from...kilometre (<i>km</i>), metre (<i>m</i>), centimetre (<i>cm</i>) mile</p>	

<p>Year 3.4- Multiplication and division</p>	<p>3 weeks- Autumn 2</p>
<ul style="list-style-type: none"> • Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables. • Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (\times), division (\div) and equals (=) signs. • Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in context and missing number problems. • Show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot 	<p><u>Useful Links</u> Vocabulary document Calculations Policy White Rose- Reasoning Mastery Year 3 booklet Interactive Teaching Programs Topmarks- diennes and coins nrich</p>
<p><u>Vocabulary:</u> relationship, multiplication, product, partition, grid method, multiple, product, tens, units, value, inverse, short division, carry, remainder, multiple, method</p>	

<p>Year 3.5- Statistics</p>	<p>1 week- Autumn 2</p>
<ul style="list-style-type: none"> • Interpret and present data using bar charts, pictograms and tables. • Solve one-step and two-step questions (for example, 'How many more?' and 'How many fewer?') using information presented in scaled bar charts and pictograms and tables. 	<p><u>Useful Links</u> Vocabulary document White Rose- Reasoning Mastery Year 3 booklet</p>
<p><u>Vocabulary:</u> list, chart, bar chart, table, frequency table, Carroll diagram, Venn diagram, label, title, axis, axes, diagram, most popular, most common, least popular, least common</p>	

Year 3.6- Fractions	3 weeks- Spring 1
<ul style="list-style-type: none"> Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators. Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators. Count up and down in tenths. Recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10. Recognise and show, using diagrams, equivalent fractions with small denominators. 	<u>Useful Links</u> Vocabulary document White Rose- Reasoning Mastery Year 3 booklet Fractions progression document
<u>Vocabulary:</u> one third, two thirds, three thirds, one tenth, relationship, equivalent, denominator, numerator, sevenths, sixths, fifths, eighths, tenths.	

Year 3.7- Multiplication and division	3 weeks- Spring 1
<ul style="list-style-type: none"> Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables. Solve problems including missing number problems involving multiplication and division, positive integer scaling problems and correspondence problems in which n objects are connected to m objectives. Write and calculate mathematical statements for multiplication and division using the multiplication tables they know, including for two-digit numbers times one-digit numbers, using mental methods and progressing to formal written methods. 	<u>Useful Links</u> Vocabulary document Calculations Policy White Rose- Reasoning Mastery Year 3 booklet Interactive Teaching Programs Topmarks- diennes and coins nrich
<u>Vocabulary:</u> relationship, multiplication, product, partition, grid method, multiple, product, tens, units, value, inverse, short division, carry, remainder, multiple, method	

Year 3.8- Measure	2 weeks- Spring 2
<ul style="list-style-type: none"> Tell and write the time from an analogue clock, including using Roman numerals, 12-hour and 24-hour clocks. Estimate and read time with increasing accuracy to the nearest minute. Record and compare time in terms of seconds, minutes and hours. Use vocabulary such as o'clock, am/pm, morning, afternoon, noon and midnight. Know the number of seconds in a minute and the number 	<u>Useful Links</u> Vocabulary document White Rose- Reasoning Mastery Year 3 booklet Interactive Teaching Programs Topmarks- diennes and coins nrich

<p>of days in each month, year and leap year.</p> <ul style="list-style-type: none"> • Compare durations of events [for example calculate the time taken by particular events or tasks]. 	
<p><u>Vocabulary</u>: century, calendar, date, am, pm, o'clock, intervals, year, leap year, minutes, hours, seconds, compare, half past, quarter past, quarter to, 5 past etc, 25 to etc.</p>	

Year 3.9- Geometry	2 weeks- Spring 2
<ul style="list-style-type: none"> • Recognise angles as a property of shape or a description of a turn. • Identify right angles, recognise that two right angles make a half-turn, three make three quarters of a turn and four a complete turn; identify whether angles are greater than or less than a right angle. • Identify horizontal and vertical lines and pairs of perpendicular and parallel lines. • Draw 2-D shapes and make 3-D shapes using modelling materials. • Recognise 3-D shapes in different orientations and describe them. • Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and size. 	<p><u>Useful Links</u></p> <p>Vocabulary document</p> <p>White Rose- Reasoning Mastery Year 3 booklet</p> <p>Interactive Teaching Programs</p> <p>Topmarks- diennes and coins</p> <p>nrich</p>
<p><u>Vocabulary</u>: angle, right angles, properties, turn, horizontal, vertical, perpendicular, parallel, 2D, 3D, orientation, classify, geometric, pentagonal, hexagonal, octagonal, quadrilateral</p>	

Year 3.10- Addition and subtraction	2 weeks- Spring 2
<p>Addition and subtraction</p> <ul style="list-style-type: none"> • Add numbers with up to three digits using the formal method of columnar addition. • Subtract numbers with up to three digits using the formal columnar subtraction. <p>Money</p> <ul style="list-style-type: none"> • Add and subtract amount of money to give change, using both £ and p in practical contexts. <p>Measures</p> <ul style="list-style-type: none"> • Measure, compare, add and subtract: lengths (m/cm/mm), mass (kg/g) and volume (l/ml) • Measure the perimeter of simple 2D shapes. • Continue to measure using the appropriate tools and units, progressing to using a wider range of measures, including comparing and using mixed and simple equivalents of mixed units. 	<p><u>Useful Links</u></p> <p>Vocabulary document</p> <p>Calculations Policy</p> <p>White Rose- Reasoning Mastery Year 3 booklet</p> <p>Interactive Teaching Programs</p> <p>Topmarks- diennes and coins</p> <p>nrich</p>

Vocabulary:

Addition and subtraction: All previous vocabulary (see calculations guidance) hundreds boundary, increase, vertical, carry, exchange, decrease, hundreds, value, digit, method

Money: Change, approximate, approximately, relationship, more/most expensive, cheap, costs less, cheaper, less/least expensive, how much...? how many...? total, amount, value, worth

Measure: distance apart/between, distance to... from...kilometre (*km*), metre (*m*), centimetre (*cm*)
mile

Year 3.11- Four operations

3 weeks- Summer 1

Addition and subtraction

- Add and subtract numbers with up to three digits using the formal columnar method.
- Add and subtract numbers mentally, including a three-digit number and ones, three digit number and tens, three-digit number and hundreds.
- Estimate the answer to a calculation and use the inverse operation to check answers.
- Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction.

Multiplication and division

- Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables.
- Solve problems including missing number problems involving multiplication and division, positive integer scaling problems and correspondence problems in which *n* objects are connected to *m* objectives.
- Write and calculate mathematical statements for multiplication and division using the multiplication tables they know, including for two-digit numbers times one-digit numbers, using mental methods and progressing to formal written methods.

Money

- Add and subtract amount of money to give change, using both £ and p in practical contexts.

Measures

- Measure, compare, add and subtract: lengths (m/cm/mm), mass (kg/g) and volume (l/ml)
- Measure the perimeter of simple 2D shapes.
- Continue to measure using the appropriate tools and units, progressing to using a wider range of measures, including comparing and using mixed and simple equivalents of mixed units.

Useful Links

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Calculations Policy
White Rose- Reasoning
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Vocabulary:

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Money: Change, approximate, approximately, relationship, more/most expensive, cheap, costs less, cheaper, less/least expensive, how much...? how many...? total, amount, value, worth
Multiplication and division: relationship, multiplication, product, partition, grid method, multiple, product, tens, units, value, inverse, short division, carry, remainder, multiple, method
Measure: distance apart/between, distance to... from...kilometre (*km*), metre (*m*), centimetre (*cm*)
 mile

Year 3.12- Fractions	3 weeks- Summer 1
<ul style="list-style-type: none"> • Count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10. • Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators. • Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators. • Recognise and show, using diagrams, equivalent fractions with small denominators. • Add and subtract fractions with the same denominator within one whole. • Compare and order unit fractions, and fractions with the same denominators. • Solve problems that involve all of the above. 	<p><u>Useful Links</u> Vocabulary document White Rose- Reasoning Mastery Year 3 booklet Fractions progression document Interactive Teaching Programs Topmarks- diennes and coins nrich</p>
<p><u>Vocabulary:</u> one third, two thirds, three thirds, one tenth, relationship, equivalent, denominator, numerator, sevenths, sixths, fifths, eighths, tenths.</p>	