**Progression of Teaching of Mathematics at Eccleston**

**White Rose Mathematics**

**Year 1**

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| **Term 1** | | |
| **Strand** | **Weeks** | **Overview** |
| Number - Place value | 1-4 | Numbers within 10 |
| Number - Addition and subtraction | 5-9 | Numbers within 10 |
| Geometry - Shape | 10 | Recognise and name 2D and 3D shapes |
| Number - Place value | 11-12 | Numbers within 20 |
| Consolidation and assessment | | |
| **Term 2** | | |
| **Strand** | **Weeks** | **Overview** |
| Number – Addition and subtraction | 1-3 | Numbers within 20 |
| Number – Place value | 4-6 | Numbers within 50 |
| Measurement – Length and height | 7-8 | Taller, shorter, cm on a ruler |
| Measurement – Weight and volume | 9-10 | Heavier, lighter, non-standard measures |
| Consolidation and assessment | | |
| **Term 3** | | |
| **Strand** | **Weeks** | **Overview** |
| Number – Multiplication and Division | 1-3 | Count in 2’s, 5’s, 10’s  Group and share |
| Number - Fractions | 4-5 | Find half and quarter |
| Geometry – Position and direction | 6 | Language of position and turns |
| Number – Place value | 7-8 | Numbers within 100 |
| Measures - Money | 9 | Recognise and count using coins |
| Measures - Time | 10-11 | Hour and half hour |
| Consolidation and assessment | | |

**Progression of Teaching of Mathematics at Eccleston**

**White Rose Mathematics – mixed planning**

**Year 2/3/Common objectives**

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| **Term 1** | | |
| **Strand** | **Weeks** | **Overview** |
| Number - Place value | 1-3 | Numbers within 100  Numbers within 1000  (incl money) |
| Number - Addition and subtraction | 4-9 | Numbers within 100  Numbers within 1000  (incl money) |
| Number - Multiplication | 10-12 | Times tables 2, 5, 10  Times tables 3, 4, 8, 50  Grouping |
| Consolidation and assessment | | |
| **Term 2** | | |
| **Strand** | **Weeks** | **Overview** |
| Number – Division | 1-2 | Grouping/sharing by 2, 5, 10  Divide 2 digits by 1 |
| Statistics | 3-4 | Tally charts, pictogram, block diagram  Pictogram, bar chart |
| Measurement – Length and height | 5 | Length cm/m  Length cm/m, cm/mm  Using 4 operations with length |
| Geometry – Shape, position, direction | 6-8 | Symmetry  Perimeter/nets  2D/3D shapes – draw,  characteristics |
| Number - Fractions | 9-12 | Half, quarter, third, three-quarters  Fraction of an amount, tenths  Unit and non-unit fractions |
| Consolidation and assessment | | |
| **Term 3** | | |
| **Strand** | **Weeks** | **Overview** |
| Measurement - Time | 1-2 | O’clock, half past, quarter past and to  1 minute intervals  Seconds, am/pm, 24hr clock  Hours/days, 5 minute intervals, duration of time |
| Problem solving | 3-5 | 4 operations and consolidation |
| Measurement – Mass, capacity, temperature | 6-8 | Volume, temperature  Addition/subtraction mass/capacity  Mass/capacity |
| Investigations | 9 onwards | Consolidation |
| Consolidation and assessment | | |

**Progression of Teaching of Mathematics at Eccleston**

**White Rose Mathematics – mixed planning**

**Year 4/5/Common objectives**

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| **Term 1** | | |
| **Strand** | **Weeks** | **Overview** |
| Number - Place value | 1-4 | Numbers/count to 1000  Numbers/count to 1,000,000  Roman numerals  Compare and order numbers  Round numbers  Use negative numbers |
| Number - Addition and subtraction | 5-7 | Column addition and subtraction  Add and subtract numbers, including exchange  Estimate and check answers |
| Number – Multiplication and division | 8-10 | Multiply and divide by 6, 7, 9, 11, 12  Multiply by 0, 1  Multiply 3 numbers  Multiples, multiply and divide by 1000  Find Prime, squared and cubed numbers  Multiply and divide by 10,100  Factors |
| Measurement – Length, perimeter, area | 11-12 | Kilometres  Perimeter and area |
| Consolidation and assessment | | |
| **Term 2** | | |
| **Strand** | **Weeks** | **Overview** |
| Number – Multiplication and division | 1-3 | Efficient methods  Division with remainders  Multiplication and division using formal methods |
| Number - Fractions | 4-8 | Count in fractions, fractions > 1  Compare and order fractions  Multiplication of fractions  Equivalent fractions, addition and subtraction of fractions, finding fractions of an amount |
| Number – Decimals/  Percentages | 9-12 | Using tenths and hundredths, changing fractions to decimals  Decimals to thousandths, changing fractions – decimals - percentages |
| Consolidation and assessment | | |
| **Term 3** | | |
| **Strand** | **Weeks** | **Overview** |
| Number – Decimals  Money | 1-2 | Using £’s and p’s, order and round decimals, including money, use four operations with decimals |
| Measurement - Time | 3 | Units of time, changing analogue to digital  Converting units of time, timetables |
| Statistics | 4-5 | Line graphs, interpreting charts |
| Geometry – Properties of shape | 6-8 | Identify, compare and order angles in a shape, lines of symmetry  Measure angles, calculate angles on a straight line and around a point  Characteristics of 2D and 3D shapes |
| Geometry – Position and direction | 9 | Reflection  Position of a shape on a grid, translate a shape on a grid |
| Measurement – converting units/volume | 10 onwards | Imperial units, volume and capacity  Convert units of measure, metric units |
| Consolidation and assessment | | |

**Progression of Teaching of Mathematics at Eccleston**

**White Rose Mathematics**

**Year 6**

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| **Term 1** | | |
| **Strand** | **Weeks** | **Overview** |
| Number - Place value | 1-2 | Numbers up to 10,000,000  Compare, order and round numbers, negative numbers |
| Number – Four operations | 3-7 | Calculate using addition, subtraction, multiplication and division  Inverse operation, multi-step problems, factors, multiples, prime, square and cubed numbers |
| Number - Fractions | 8-11 | Equivalent fractions, simplify, compare and order fractions  Use improper and mixed fractions  Add, subtract, multiply and divide fractions, find fractions of an amount |
| Geometry – Position and direction | 12 | Use of four quadrants, translation and reflection of shapes |
| Consolidation and assessment | | |
| **Term 2** | | |
| **Strand** | **Weeks** | **Overview** |
| Number – Decimals | 1-2 | Up to 3-decimal places, multiplication and division by 10, 100, 1000 and integers, solve problems, convert fractions to decimals and back |
| Number – Percentages % | 3-4 | Find equivalent fractions, decimals and percentages, order percentages, find a percentage of an amount |
| Number – Algebra | 5-6 | Form expression, substitution, formulae, two-step equations, find pairs of values |
| Measurement – Convert units of measure | 7 | Convert and calculate metric measures, imperial measures |
| Measurement – Perimeter, area and volume | 8-9 | Find perimeter and area, including of triangles and parallelograms, volume of cuboids |
| Number - Ratio | 10-11 | Use ratio symbol, calculate ration, find scale factors, ratio and proportion problems |
| Consolidation and assessment | | |
| **Term 3** | | |
| **Strand** | **Weeks** | **Overview** |
| Statistics | 1-2 | Read and interpret graphs, circles, pie charts, mean averages |
| Geometry – Properties of shape | 3-5 | Using a protractor, calculating angles, draw shapes accurately, nets of 3D shapes |
| Preparation for SAT’s, recapping and consolidation ready for High School, Enterprise week, assessment | | |