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| **Year 5** | | | | | | | | | | | | | |
| **Autumn** | **Number: Place value**  Negative numbers  Count powers of 10  Read write up to 1,000,000  Round numbers  Solve problems  Roman Numerals | | **Addition and Subtraction**  Mental vs written Mental 4/5 digit multiple of 10  Formal methods  Rounding to check answers  Problem solving including measures | | | **Multiplication and Division**  **Measure**  Properties of number –  Squared  cubed  factors  Factor pairs  Common factors  prime  Composite numbers | | | **Multiplication and Division**  Multiplying whole numbers and decimals by 10, 100, 1,000  Converting units of measure | | **Multiplication and Division**  X and ÷ mentally drawing on known facts | | **Position and Direction**  Position of a shape  Translation  Reflection | |
| Include measurement – all contexts  Reasoning and problem solving | | | | | | | | | | | | | | |
| **Spring** | **Fractions**  Recognising mixed numbers and improper fractions | **Fractions**  Equivalent  Compare Order  with denominators which are all multiples of the same number | | **Fractions**  Add and subtract where denominators are multiples of the same number | | **Multiplication and Division**  4 digit x 1 and digit  4 digit x 2 digit  4 digit ÷ 1 digit  Interpret remainders accordingly  Problem solving  Scaling by fractions  Simple rates | | | | **Measurement/Statistics**    **Time**  Reading timetables  Solve problems converting units of time | | **Measurement**  **Area**  Using squares  Calculate and compare  Estimate area of irregular shapes  **Volume** | | |
| Include measurement – all contexts  Reasoning and problem solving | | | | | | | | | | | | | | |
| **Summer** | **Fractions**  Multiplying proper fractions by whole numbers | **Number: decimals**  Read / write to 2dp  Write as fractions  Order and compare  Round to nearest whole and 1dp  Read write order to 3dp | | | **Decimals**  Solve problems with number to 3dp | | **Percentages**  Understand %  Write as fraction/decimal | **Statistics**  Problem solving – line graphs  **Measure**  Perimeter  Composite  rectilinear shapes | **Measure**  Convert metric (relate to x ÷ 10,100,1000)  Convert metric and imperial  Solve problems with all measure | | | **Geometry**  Properties 2d shape  3d shapes  Nets  Regular irregular polygons  Draw and measure angles  Identify angles | | |
| Reasoning and problem solving  Include measurement – all contexts | | | | | | | | | | | | | | |