| Objectives: | - | 易 |
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| Autumn |  |  |
| Number and place value |  |  |
| Read, write, order and compare numbers up to 10,000,000 and determine the value of each digit. |  |  |
| Round any whole number to a required degree of accuracy. |  |  |
| Use negative numbers in context, and calculate intervals across zero. |  |  |
| Solve number and practical problems that involve all of the above. |  |  |
| Number: Addition, Subtraction, Multiplication and Division |  |  |
| Solve addition and subtraction multi step problems in contexts, deciding which operations and methods to use and why. |  |  |
| Multiply multi-digit number up to 4 digits by a 2-digit number using the formal written method of long multiplication. |  |  |
| Divide numbers up to 4 digits by a 2-digit whole number using the formal written method of long division, and interpret remainders as whole number remainders, fractions, or by rounding as |  |  |
| appropriate for the context. |  |  |
| Divide numbers up to 4 digits by a 2-digit number using the formal written method of short division, interpreting remainders according to the context. |  |  |
| Perform mental calculations, including with mixed operations and large numbers. |  |  |
| Identify common factors, common multiples and prime numbers. |  |  |
| Use their knowledge of the order of operations to carry out calculations involving the four operations. |  |  |
| Solve problems involving addition, subtraction, multiplication and division. |  |  |
| Use estimation to check answers to calculations and determine in the context of a problem, an appropriate degree of accuracy |  |  |
| Number: Fractions |  |  |
| Use common factors to simplify fractions; use common multiples to express fractions in the same denomination. |  |  |
| Compare and order fractions, including fractions >1. |  |  |
| Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions. |  |  |
| Multiply simple pairs of proper fractions, writing the answer in its simplest form (e.g. $1 / 4 \times 1 / 2=1 / 8)$. |  |  |
| Divide proper fractions by whole numbers (e.g. $1 / 3 \div 2=1 / 6$ ). |  |  |
| Associate a fraction with division to calculate decimal fraction equivalents (e.g. 0.375 ) for a simple fraction (e.g. 3/8). |  |  |
| Identify the value of each digit to three decimal places and multiply and divide numbers by 10,100 and 1000 where the answers are up to three decimal places. |  |  |
| Multiply one digit numbers with up to two decimal places by whole numbers. |  |  |
| Use written division methods in cases where the answer has up to two decimal places. |  |  |
| Solve problems which require answers to be rounded to specified degrees of accuracy. |  |  |
| Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts. |  |  |
| Geometry: Position and Direction |  |  |
| Describe positions on the full coordinate grid (all four quadrants). |  |  |
| Draw and translate simple shapes on the coordinate plane, and reflect them in the axes. |  |  |


| Spring |  |
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