| Mount CharlesAlgebraObjective. K-Knowledge. S- Skills |  |  |  |  |  |  |  |
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|  | EYFS | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
|  |  | See addition and subtraction and measurement | See addition and subtraction, measurement and geometry: position and direction | See addition and subtraction | See measurement | See geometry: properties of shape | rule expression substitute formula equation |
|  | Begins to explore and work out mathematic al problems, using signs and strategies of their own choice, including (when appropriate ) standard numerals, tallies and + or - | solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as $7=\square-9$ <br> (copied from Addition and Subtraction) <br> K - understand addition and subtraction K - how to use concrete objects and pictorial representations to represent a problem K - purpose of equal sign = and how it can be used in different places in a calculation S - add and subtract accurately | recognise and use the inverse relationship between addition and subtraction and use this to check calculations and missing number problems. (copied from Addition and Subtraction) <br> K - inverse relationship between addition and subtraction S - how to use the inverse relationship between addition and subtraction to check calculations <br> S - use concrete and pictorial representations to explain the relationship | solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction. (copied from Addition and Subtraction) <br> K - confident knowledge of number facts and place value. K - how to calculate more complex addition and subtraction S - solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction |  | use the properties of rectangles to deduce related facts and find missing lengths and angles (copied from Geometry: Properties of Shapes) <br> K - properties of rectangles K - angles in a quadrilateral add up to $360^{\circ}$ <br> S - use the properties of rectangles to deduce related facts S-find missing lengths and angles | express missing <br> number problems algebraically <br> K - letters can represent numbers <br> $\mathrm{K}-\mathrm{x}$ can be left out of <br> a multiplication calculation eg $3 \times \mathrm{d}=$ 3d <br> S - express missing number problems algebraically <br> find pairs of numbers that satisfy number sentences involving two unknowns <br> K - how to work logically by finding appropriate starting points <br> S - find pairs of numbers that satisfy number sentences |



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| $\begin{aligned} & 7 \\ & \frac{0}{3} \\ & \frac{1}{2} \\ & \underset{0}{0} \end{aligned}$ | sequence events in chronological order using language such as: before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening (copied from Measurement) <br> K - meaning of words given as examples above <br> K - appropriate contexts for above examples <br> S- sequence events in chronological order using appropriate language | compare and <br> sequence intervals of time <br> (copied from <br> Measurement) <br> K - how time is recorded $K-60$ seconds in a minute and 60 minutes in an hour $\mathrm{K}-24 \mathrm{hrs}$ in a day $\mathrm{K}-7$ days in a week. 14 days in a fortnight. <br> S - compare and sequence intervals of time. <br> order and arrange combinations of mathematical objects in patterns (copied from Geometry: position and direction) K - the difference between a pattern and a sequence S - order and arrange combinations of mathematical objects in patterns and sequences | Perimeter can be expressed algebraically as 2(a+ b) where $a$ and $b$ are the dimensions in the same unit. <br> (Copied from NSG measurement) | use simple formulae <br> K - that formulae are a set of instructions K - calculate accurately across all four operations <br> S-use simple formulae <br> recognise when it is possible to use formulae for area and volume of shapes (copied from Measurement) <br> generate and describe linear number sequences <br> K- how to find the common different of a set of numbers $S$ - generate and describe linear number sequences |

(b)

