**Cambois Primary School**

**Long Term Planning – Maths year 5 and 6**

**Autumn Term 1st Half**

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| --- | --- | --- | --- | --- | --- |
|  | **Arithmetic** | **Geometry** | **Data and Measure** | **Arithmetic 2** | **Reasoning** |
| **Main learning objectives** | **Addition and Subtraction**  **NC**  y5 and y6 formal written methods  solve multi-step problems deciding operation (own in to lessons)  **MMS**  written methods for + and –  use with vulgar fractions and mixed numbers. | **Angles**  **NC**  y5 - know angles are measured in degrees, estimate and compare acute obtuse and reflex angles.  y6 – find missing angles on straight lines, polygons.  MMS | **3d shapes**  **NC**  Recognise describe and build 3d shapes including making nets Y6  know 3d shapes from their 2d representations.  **MMS**  Identify nets.  compare and sort – venn diagrams. | **Missing numbers and problem solving**  **NC**  Solve number problems using number and place value (y5 and Y6)  **MMS**  Solve problems with all four operations  missing number grids**.** | **Mean and the Time**  **NC**  y6 calculate and interpret mean average.  y5 – solve problems converting between time.  **MMS**   * Calculate mean, * Write a.m. and p.m. times * Calculate time durations- |
| **MMS link/ Block plans 1st term** | Block 1 – MMS 5 | MMs 5 Block 2 | Block 1 – MMS 5 Data and Measure adapt and do recognise 3d shapes rather than do nets. | Block 1 – MMS 5  Arithmetic 2 | Block 1 MMS 5 reasoning. Only focus on the mean. |
| **Mental focus/ objectives** | Read, write and order numbers knowing the value for each digit.  Count forwards and backwards in steps of power of 10. Y5  Round any number to nearest 10, 100, 1000, 10000 and 100 000. Y5  Know off by heart times tables. | | | | |

**Cambois Primary School**

**Long Term Planning – Maths year 5 and 6**

**Autumn Term 2nd Half**

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| --- | --- | --- | --- | --- | --- |
|  | **Arithmetic** | **Geometry** | **Data and Measure** | **Arithmetic 2** | **Reasoning** |
| **Main learning objectives** | **Multiplication**  **NC**  use written methods for x. | **translation, reflection**  **NC**  **y6** – draw and translate simple shapes on the coordinate plane and reflect in the axes. | **measure and conversions**  **NC**  Convert miles and 5 miles.  convert between metric and imperials.  use approximations for measure (y5)  **MMS**  Conversion between imperial units  measurement | **Factors**  **NC**  y6 – common factors  identify multiple and factors (y5)  **MMS**  Factors and prime factors  Equality terms. | **Algebra**  **NC**  y6 use simple formula  exoress misiing numbers  find pairs in equations  generate number sequences.  **MMS**   * Solve equations- |
| **MMS link/ Block plans 1st term** | Own lessons based around standard written methods. | MMs Block 2 MMs | Block 2 – MMS 5 Data and Measure | Block 12 MMS Arithmetic 2 | Block 2 MMS reasoning |
| **Mental focus/ objectives** | use negative numbers in context.  Read, write and order numbers knowing the value for each digit.  Count forwards and backwards in steps of power of 10. Y5  Round any number to nearest 10, 100, 1000, 10000 and 100 000. Y5  Know off by heart times tables. | | | | |

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**Long Term Planning – Maths year 5 and 6**

**Spring Term 1st Half**

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| --- | --- | --- | --- | --- | --- |
|  | **Arithmetic** | **Geometry** | **Data and Measure** | **Arithmetic 2** | **Reasoning** |
| **Main learning objectives** | **Division**  **NC**  use formal methods for written division | **Area & perimeter**  **NC**  **y5 –** calculate and compare area of rectangles and estimate the area of irregular shapes.  y6 – area of triangles for most able.  y5 – calculate perimeter of shapes. | **Interpreting calendars**  **NC**  Complete read and interpret tables. (y5)  **MMS**  - Interpret calendar and timetables | **Divisibility tests - factors**  **NC**  identify multiple and factors (y5)  common factors to simplify (y6)  **MMS**  Test for divisibility  Identify factors and proper factors. | **Line graphs**  **NC**  interpret line graphs to solve problems (y6)  **MMS**   * Interpret line graphs |
| **MMS link/ Block plans 1st term** | own lessons – building on other mental calculations | own lessons | Block 3 – MMS 5 Data and Measure | Block 3 MMS 5Arithmetic 2 | Block 3 MMS 6 reasoning  Block 4 year 5 also links with this unit. |
| ***Mental focus/ objectives*** | *Use negative numbers in context.*  *Read, write and order numbers knowing the value for each digit.*  *Count forwards and backwards in steps of power of 10. Y5*  *Round any number to nearest 10, 100, 1000, 10000 and 100 000. Y5*  *Know off by heart times tables.* | | | | |

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**Long Term Planning – Maths year 5 and 6**

**Spring Term 2nd Half**

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|  | **Arithmetic** | | **Geometry** | | **Data and Measure** | | **Arithmetic 2** | | **Reasoning** | |
| **Main learning objectives** | **Yr. 5** | **Yr. 6** | Yr. 5 | **Yr 6** | yr 5. | **Yr 6** | y5 | **Yr 6** | **yr 5** | **Yr 6** |
| **Fractions**  4 operations with same denominations | Revision  Fractions MMS 6 Block 2.  equivalent fractions  adding and subtracting even when different denominations. | **Symmetry**  NC   * Y4 – recognise lines of symmetry | revision | **Money**  NC  Y5 -use operations to solve money problems. | Revision | **Prime numbers** | revision | **Expression and terms** | revision |
| **MMS link/ Block plans 1st term** | Own lessons | Block 4 – MMS 6 |  | Block 3 MMs 5 reasoning  cover changing form pounds to pence, ordering values, totals for amounts and whether enough money. |  | Block 4 – MMs 5  Arithmetic 2 |  | MMs 4 BLOCK 5– expressions and terms |  |
| **Mental focus/ objectives** | *Use negative numbers in context.*  *Read, write and order numbers knowing the value for each digit.*  *Count forwards and backwards in steps of power of 10. Y5*  *Round any number to nearest 10, 100, 1000, 10000 and 100 000. Y5*  *Know off by heart times tables.* | | | | | | | | | |

**Cambois Primary School**

**Long Term Planning – Maths year 5 and 6**

**Summer Term 1st Half**

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|  | **Arithmetic** | | **Geometry** | | **Data and Measure** | | **Arithmetic 2** | | **Reasoning** | |
| **Main learning objectives** | **Yr. 5** | **Yr. 6** | Yr. 5 | **Yr 6** | yr 5. | **Yr 6** | y5 | **Yr 6** | **yr 5** | **Yr 6** |
| **Mental startegies**  Y3 – add and subtract mentally. | Revision | circle  parts of a circle and recap all shape work. | revision | metric and conversion of units | Revision | **Evaluate terms and using brackets** | revision | **what if not?** | revision |
| **MMS link/ Block plans 1st term** |  | Block |  | Block 5 MMs5 |  | Block 5 MMs 5 |  | block 5 MMS 5 |  |
| **Mental focus/ objectives** | *Use negative numbers in context.*  *Read, write and order numbers knowing the value for each digit.*  *Count forwards and backwards in steps of power of 10. Y5*  *Round any number to nearest 10, 100, 1000, 10000 and 100 000. Y5*  *Know off by heart times tables.* | | | | | | | | | |

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**Long Term Planning – Maths year 5 and 6**

**Summer term 2nd Half**

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| --- | --- | --- | --- | --- | --- |
|  | **Arithmetic** | **Geometry** | **Data and Measure** | **Arithmetic 2** | **Reasoning** |
| **Main learning objectives** | **Revision of all four written strategies.** | **Triangles and the different types.** | Time  Duration and 24 hour clock.  Solve word problems involving speed, distance and time. | Percentages  10% 25%  50% relate to fraction decimals as well. | Own word reasoning problems and puzzles.  missing values  squares. Grids  Sudoku. |
| **MMS link/ Block plans 1st term** | own lessons | Block 6 MMS 5 | Block 6 MMS 5  MMs 6 Block 6 – Ryan challenge golden ratio. | own lessons | own lessons |
| ***Mental focus/ objectives*** | *Use negative numbers in context.*  *Read, write and order numbers knowing the value for each digit.*  *Count forwards and backwards in steps of power of 10. Y5*  *Round any number to nearest 10, 100, 1000, 10000 and 100 000. Y5*  *Know off by heart times tables.* | | | | |

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