**Maths Medium Term Planning**

**Year Five**

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| **WR Block: Decimal and percentages** | | **Summer Term** | |
| **National Curriculum Objectives** | **Small Steps** | **Prior Learning** | **Future Progression** |
| * Read and write decimal numbers as fractions [for example, 0.71 = 100/ 71 ]. * Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents. * Round decimals with two decimal places to the nearest whole number and to one decimal place. * Read, write, order and compare numbers with up to three decimal places. * Solve problems involving number up to three decimal places. * Solve problems which require knowing percentage and decimal equivalents of 1/2 , ¼,1/5, 2/5 and those fractions with a denominator of a multiple of 10 or 25. | * Use known facts to add and subtract decimals within 1 * Complements to 1 * Add and subtract decimals across 1 * Add decimals with the same number of decimal places * Subtract decimals with the same number of decimal places * Add decimals with different numbers of decimal places * Subtract decimals with different numbers of decimals places * Efficient strategies for adding and subtracting decimals * Decimal sequences * Multiply by 10, 100 and 1 000 * Divide by 10, 100 and 1 000 * Multiply and divide decimals – missing values | **Y4**   * Find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths. * Round decimals with one decimal place to the nearest whole number. * Compare numbers with the same number of decimal places up to two decimal places. * Solve simple measure and money problems involving fractions and decimals to two decimal places. | **Y6**   * 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 [for example, × = ]. * Divide proper fractions by whole numbers [for example, ÷ 2 = ]. * Associate a fraction with division and calculate decimal fraction equivalents [for example, 0.375] for a simple fraction [for example, ]. * Identify the value of each digit in numbers given to three decimal places and multiply and divide numbers by 10, 100 and 1000 giving answers up to three decimal places. |
| **Key Vocabulary**  **New Vocabulary:**  Percentage,  per cent, % | **Key Vocabulary:**  **Previous Year Group:**  decimal point,  decimal place, | **Stem Sentences**  \_\_\_ tenths = \_\_\_ hundredths  \_\_\_ ones + \_\_\_ ones = \_\_\_\_ ones  1 = \_\_\_ tenths = \_\_\_ hundredths = \_\_\_\_ thousandths  \_\_\_\_ can be partitioned into \_\_\_\_\_ and \_\_\_\_\_  When adding two decimal numbers, I need to keep \_\_\_\_ in line  To multiply by 10/ 100/ 1000 I move the digits \_\_\_\_ places to the left  To divide by 10/ 100/ 1000 I move the digits \_\_\_ places to the right | |
| **Concrete, Pictorial, Abstract Models/ Calculations** | | | |