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| Year 4  ES | End of year expectations for mental calculations | End of year expectations for written methods and problem solving | Written strategies/ recordings/methods/images | Vocabulary  &  Links |
| * Practise mental methods with increasingly large numbers * Consolidate partitioning and re‐partitioning * Use compensation for adding too much/little and adjusting * Use straws, Dienes, place value counters, empty number lines, place value mats, Numicon etc.   **Common mental calculation strategies:**  Partitioning and recombining  Doubles and near doubles  Use number pairs to 10 and 100  Adding near multiples of ten and adjusting  Using patterns of similar calculations  Using known number facts  Bridging though ten, hundred  Complementary addition | * **Add numbers with up to four digits, using the formal written (column) method** * Using column method and then move onto 4 digits * Include decimal addition for money * Addition of fractions with the same denominator to become **fluent** through a variety of increasingly   complex problems beyond one whole   * Counting using simple fractions and decimals, both forwards and backwards * Add three digit numbers | 55 + 37 = 55 + 30 + 7  = 85 + 7  = 92    I know that 42+97= 42+100-3  1  5 625 + 1 048  6 673  139 142  42 | * Estimate and use inverse operations to check answers * Solve addition and subtraction two step problems in context, deciding which operations and methods to use and why * Identify, represent and estimate numbers using different representations * Recognise the place value of each digit in a four‐digit number * Estimate, compare and calculate different measures, including amounts money in £ and p (including * fractions and decimals) |