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| Year 3  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 |
| * Add numbers mentally, including:   • a 3-digit number and ones  • a 3-digit number and tens  • a 3- number and hundreds   * Partition all numbers and recombine, starting with   TU + TU then  HTU + TU   * 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 three digits, using formal written (column) methods * Add to three digit numbers using physical and abstract representations (e.g. Dienes, place value counters, empty number lines, place value mats, etc) * Addition of fractions with the same denominator within one whole*.* | 10 1 | * Pupils should estimate the answers to a calculation & use inverse operations to check answers. * Add amounts of money using both £ and p in practical contexts. * Measure, compare and add lengths (m/cm/mm), mass (kg/g) & volume/capacity (l/ml) |