

**Maths: Addition and Subtraction using whole numbers with more than four digits**

**Mental**

1. Number bonds to 1,000
  - using multiples of 10 and 100
  - number bonds within other numbers
2. Add/subtract a 4 digit and 1 digit number
  - without bridging
  - with bridging
3. Add/subtract a 4 digit number and multiple of ten
  - without bridging
  - with bridging
4. Add/subtract a 4 digit number and of a hundred
  - without bridging
  - with bridging
5. Add/subtract a 4 digit number and of a thousand
  - without bridging
  - with bridging
6. The compensation and adjustment method
  - add/subtract too much then adjust
  - add/subtract too little then adjust
7. Near doubles
  - add/subtract near double and adjust
8. Estimate answers by rounding first

**Written**

- 1. Add/subtract whole numbers with more than four digits:**
  - use the formal column method
    - line the digits appropriately
  - exchange or regroup more than one digit
  - add/subtract from multiples of 1,000 and 10,000
- 2. Rounding is used to check calculations and determine the level of accuracy**
- 3. Inverse operations**

- to calculate missing numbers
- to calculate missing digits

**4. Strategies to solve multi-step problems**

- identify key parts of the question and calculation required
- move between mental and written methods knowing which is the most efficient
- know the required order of calculations