



Key Vocabulary

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|--------------------|
| Add |
| Total |
| Make |
| Plus |
| Sum |
| More |
| Altogether |
| Difference |
| Subtract |
| Less |
| Minus |
| Take away |
| Column addition |
| Column subtraction |
| Estimate |
| Inverse operation |
| Number facts |
| Place value |
| Complex |

Learning Objective

- 1. add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction)**
- 2. add and subtract numbers mentally with increasingly large numbers**
- 3. use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy**
- 4. solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why**

Small Steps and Learning Objective links – *not necessarily a lesson*

- Mental strategies (LO 2)
 - Add whole numbers with more than four digits (LO 1 & 4)
 - Subtract whole numbers with more than four digits (LO 1 & 4)
 - Round to check answers (LO 1, 2 & 3)
 - Inverse operations (addition and subtraction) (LO 1 & 4)
 - Multi-step addition and subtraction problems (LO 1 & 4)
 - Compare calculations (LO 1 & 4)
 - Find missing numbers (LO 1 & 4)
- *LO 4 will be within every lesson due to the four-part lesson sheets*

Unit Lesson Progression

Knowledge Harvest – must be marked – Gaps in prior knowledge must be addressed in lesson starters, morning work, assembly boosters.


Unit lessons (depends on children’s understating & teacher discretion)
 A typical lesson structure:

- *Fluent in five*
- *Timetable activity*
- *Recap previous day/prior learning linked to today's task/FIT...*
 - *Intended learning (today's learning)*
- *Common mis-conception (most will be picked up in LIVE marking)*
 - *Task – (four-part lesson)*
 - *Teacher Deployment*
 - *Test base lesson*


End of unit knowledge harvest followed by AfL.

Suggested useful resources

| Practice it & Secure it | Deepen it & Explain it |
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| <ul style="list-style-type: none"> • Class room secrets – varied fluency • WRM scheme of learning • Target Your Maths | <ul style="list-style-type: none"> • TestBase • Class room secrets – reasoning and problem solving • WRM scheme of learning |



Year 5 – Maths – Addition and Subtraction (2 weeks)



Previous learning (year 4)

add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate

estimate and use inverse operations to check answers to a calculation

solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why

Intended learning (year 5)

add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction)

add and subtract numbers mentally with increasingly large numbers

use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy

solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why

Future learning (year 6)

perform mental calculations, including with mixed operations and large numbers

use their knowledge of the order of operations to carry out calculations involving the 4 operations

solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why

solve problems involving addition, subtraction, multiplication and division

use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy