The Number Facts Kit developed by Loganholme State School is a resource to assist schools in organising individual programs in number facts development.

The Kit contains:

- Number Facts in each of the four operations graded in levels of difficulty.
- Sequenced Number Facts Revision Levels to ensure competency-based level progression.
- Extension Levels for consolidation and application of skills.
- Strategies for learning number facts in each level to at least 4 seconds.
- Hints to assist in the teaching of Number Facts.
- End of semester proficiency levels for mastery of Number Facts throughout early, middle, late childhood.

**Number Fact Levels**

The Number Facts have been divided into the four operations with 10 levels in each:

- Addition (A)
- Subtraction (S)
- Multiplication (M)
- Division (D)

Addition and Subtraction levels complement each other at a similar level.

e.g.  
A1 - add one  
S1 – take one away  
The subtraction facts should only be introduced if the corresponding addition fact is known. Developing an understanding about the relationship between addition and subtraction is **vital**.

Multiplication and Division similarly complement each other.

e.g.  
M1 - 2’s facts, 10’s facts  
D1 – 2’s facts, 10’s facts  
The strategy for learning any division fact is to relate it to the multiplication fact already learned. Developing an understanding about the relationship between multiplication and division is **vital**.

A Strategy and hints for learning the number facts at each level are included. Each Strategy needs to be taught to the learner as a means of assisting memorisation of the Number Fact.

The Strategy is explained for parents’ information and set out clearly for children to use when learning number facts at night. (Loganholme State School homework policy focuses on the development of essential skills in Reading, Spelling and Number Facts).

It’s important to remember that the strategy to assist in memorising the facts is not the ultimate goal. **The ultimate goal in learning Number Facts is instant recall.**
The 9 strategies for each operation are listed at the front of each operation in the kit.

Revision Levels are included within the Number Facts levels for each operation to ensure competency-based progression. A learner should not move on to the next level until all previous levels are attained. Practice and consolidation of each number fact level is vital.

An overall revision level at the end of each operation is designed as a means of confirming mastery yet again. Within a 4 second recall-time is the standard to be achieved.

The Level System enables the Number Facts program to be individualised. Each learner progresses at his/her own rate – some progress very quickly in the early years, others require a longer time over a number of years. Recycling through previous levels is to be expected until mastery is reached to 4 second recall level.

Extension Levels are designed for learners to consolidate and apply their skills working with larger numbers. Only learners who have attained mastery of all 4 operations should work on these levels.

A learner should only progress to the next level if he/she is confident with previous levels in any operation.

Practice is essential and games, real-life problems and fun activities that help confidence to develop are highly recommended.

The challenge with a class however is to provide practice for individual learner at their own levels. A balance between success and challenge is crucial if a learner is to confidently progress through the levels. Acknowledging that progression will be at different rates for individual learners is the key.

Some learners will be working on levels in both ‘addition and subtraction’ or ‘multiplication and division’ at the same time. It’s important however that a subtraction level is not introduced until the corresponding addition levels are mastered. Similarly division strategies should only be introduced if the corresponding multiplication strategy is already learned.