Quicksmart Mathematics Intervention Program

The QuickSmart mathematics lessons begin with a review of the focus facts, starting with those already known, and move on to those yet to be remembered. Teacher-led discussion and questioning about the relationship between number facts and ways to recall them merge into simple mathematics fact practice activities, such as Three-in-a-Row and Same Sums. These games were developed to complement each set of focus facts and allow students to review and consolidate their learning in a motivating way. Flashcards and timed performance activities, such as speed sheets, are used to assist students to develop automatic recall.

In the last part of the lesson, students practise their skills independently on carefully selected worksheets that are closely related to the lesson content. Mathematics lessons usually conclude with a brief CAAS assessment. Both structured and incidental strategy instruction is a feature of the lessons, with the aim of moving students on from relying on slow and error-prone strategies, especially count-by-one strategies, to the use of more sophisticated and efficient strategies, including automatic recall. Once the program is established, at least one lesson a week focuses on problem-solving strategies and activities.
Structure of *QuickSmart* Mathematics Intervention Session

*QuickSmart* mathematics intervention strategies include a variety of short, focused activities that aim to increase students' strategy use and improve their automatic recall of basic number facts across all four operations. Mathematics intervention sessions include:

- timed recall of basic number facts from a targeted set of focus number facts;
- speed sheets that also relate to the same set of focus facts and include extension number facts;
- opportunities to consolidate the use of strategies for calculating number facts;
- the use of a prompt scaffold to solve mathematical problems and establish knowledge of problem-solving routines; and
- regular testing on tasks from the CAAS bank of mathematical tasks.