

CAMS , STAMS and Solve



The Step-by-Step Guide to Implementing CAMS Plus, STAMS Plus and Solve in Your Classroom

CAMS Plus, STAMS Plus and Solve is a powerful, integrated program of assessment and data driven instruction focusing specifically on the fundamental maths skills students need to master.

First published in 2006, the 2013 “Plus” version has been completely re-written and re-designed to focus on fundamental maths skills at each year level. It includes maths content relevant to Australian schools, a new extra practice series (Solve) and interactive whiteboard lessons. It has also been aligned to the Australian Curriculum.

ASSESSMENT + INSTRUCTION + PRACTICE = SUCCESS

CAMS Plus, STAMS Plus and Solve work together to ensure students gain a solid understanding of key maths concepts and skills, helping them to become independent problem solvers.

1. **CAMS Plus (Comprehensive Assessment of Mathematics Strategies)** is the assessment component of the program, diagnosing student difficulties in fundamental maths skills. It is comprised of pretests, benchmarks and post tests.
2. **STAMS Plus (Strategies to Achieve Mathematics Success)** is the explicit instruction component of the program. It targets individualised instruction of essential maths skills based on assessment results in CAMS Plus.
3. **Solve** provides extra practice, supports instruction and reinforces maths skills with sequenced practice, based on the lessons introduced in STAMS Plus.

The program consists of 8 levels (Levels A–H = Years 1–9) allowing for identification and teaching of the sixteen fundamental mathematical concepts across each of the 8 levels.

Benefits of CAMS Plus, STAMS Plus & Solve

1. Aligns to Australian Curriculum
2. Diagnoses, instructs, provides Benchmarks and Post Tests
3. Incorporates Interactive Whiteboard Lessons (Levels C–H)
4. Records Data through an Online Management System
5. Teaches Maths Vocabularies
6. Works Well with Other Programs

STEP 1. Level Placement

Levelling students can be conducted in one of two ways: online or by downloading the Placement Booklet from our website.

Students can complete each placement test up to and including their current year level, or complete the placement test for their current year level and move up or down a level(s) based on their results.

A score of between 8–13 on a placement test, means the student is on the correct level, 14 and above move student up a level, 8 and below move student down a level.

Once students are placed on the correct level, you can complete your resources order.

Each student requires their own copy of CAMS Plus, STAMS Plus and Solve. A Teacher Guide is available for each level. The teacher guide contains the answers.

Level A = Years 1–2	Level C = Years 3–4	Level E = Years 5–6	Level G = Years 7–8
Level B = Years 2–3	Level D = Years 4–5	Level F = Years 6–7	Level H = Years 8–9

STEP 2. ASSESSMENT – CAMS PLUS PRETESTS

The pretest consists of 80 maths problems (5 to a page) covering all 16 concepts.

Allow 30–45 minutes per day to complete 4 pages of the 16 lessons. The answer sheet is in the back of the student book. Students must complete all 16 lessons in a 5-day period or as quickly as possible.

At the end of the last pretest, mark the entire test as a group with students correcting their answer forms. Students fill in their results on their Student Progress Chart, complete the Self Assessment Form 1 on the back of their answer sheet, tear out the page and give it to the teacher.

The teacher has the option to enter student data online in the Online Software or photocopy and complete the following forms in the CAMS Plus Teacher Guide:

- **INDIVIDUAL STUDENT RECORD SHEET** (records score and percentage correct)
- **CLASS SHEET** (assists with planning instruction and grouping students)

This information is used for individual conferences and to plan learning groups. Use the **INDIVIDUAL PERFORMANCE GRAPH** to help create a student-learning plan.

STEP 3. Instruction – STAMS Plus

STAMS Plus teaches fundamental maths skills and concepts for Years 1 to 9. Each concept is presented across 5 lessons (see adjacent page).

ADDITIONAL ACTIVITIES are provided at the end of each lesson in the STAMS Plus Teacher Guide and can be used with whole class or for remediation with students struggling to understand particular concepts.

Photocopiable **SCHOOL-HOME CONNECTION** lessons are provided at the back of each STAMS Plus Teacher Guide to assist parents with student learning.

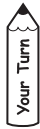

Page 10 in each STAMS Plus Teacher Guide provides instructions for downloading interactive whiteboard lessons for use with Part 1 and Part 2 of each lesson (Levels C–H).

Each lesson in the STAMS Plus **TEACHER GUIDE** has a thumbnail of the related student book pages for that lesson. Answers are provided on the thumbnails and in the text at the bottom of that page.

The STAMS® five part lesson at a glance

Week at a Glance

Suggested lesson pacing

	Monday	Tuesday	Wednesday	Thursday	Friday
	Modelled and Guided Instruction		Modelled and Guided Practice		Independent Practice
	Part one	Part two	Part three	Part four	Part five
Direct instruction	Introduce new skill with student book pages. 20 minutes	Introduce new skill with student book pages. 20 minutes	Model multiple-choice problem; analyse answers. 10 minutes	Model extended-response problem. 10 minutes	
Independent work 	Practise new skill. 10 minutes	Practise new skill. 10 minutes	Practise solving multiple-choice problems. 20 minutes	Practise solving extended-response problem. 20 minutes	Solve problems in test-prep format. 30 minutes
Assessment 	Check <i>Your Turn</i> answer.	Check <i>Your Turn</i> answer.	Check <i>Your Turn</i> answers.	Check <i>Your Turn</i> answer.	Check <i>Your Turn</i> answers. Use <i>Assessment and Remediation</i> . 15 minutes
Additional Activity (optional)	<i>Hands-on Activity</i> 15 minutes	<i>Reteaching Activity</i> 15 minutes	<i>Vocabulary Activity</i> 15 minutes	<i>Real-World Connection plus School-Home Connection</i> 15 minutes	<i>Challenge Activity</i> 15 minutes

STEP 4. Extra Practice and Progress Snapshot – CAMS Plus Benchmark & Solve

After teaching 4 concepts (20 lessons), you can administer a BENCHMARK to monitor student progress.

Related SOLVE review tests can be administered as extra practice before the BENCHMARK. This is optional. Solve practice lessons provide follow up for students struggling with specific topics.

For ease of implementation view suggested PACING CHART on page 10 of the Solve Teacher Guide.

On completion of each benchmark test, have students fill in their results on the Student Progress Chart.

STEP 5. Assess Mastery – CAMS Plus Post Test

After teaching all STAMS Plus lessons, students complete the POST TESTS in the CAMS Plus STUDENT BOOK. Record results on each student's individual performance graph. This enables students to view their performance and provides a basis for student conference and progress planning.

Online Management System

This online portal allows you to produce detailed reports of student and class progression using CAMS Plus – great for parent-teacher interviews! The teacher enters student results and the software automatically analyses both student and overall class performance for the pretests, benchmarks and post tests. The software is provided on a yearly subscription by school or by class. For more information or to download the free trial visit:

<http://www.hbe.com.au/series-cams-and-stams/online-assessment-and-reports.html>

CAMS Plus & STAMS Plus Online: Assessment and Reports

Online Reporting (Levels A–H)

An online portal that allows you to produce detailed reports of how your students and class are progressing with the CAMS Plus & STAMS Plus program – and in half the time!

Automatically analyses both student performance and overall class performance per mathematics strategy, and displays individual strengths and weaknesses in the 16 mathematics strategies. As students complete lessons, teachers can input, track and analyse their results with CAMS Plus & STAMS Plus Online: Assessment and Reports for detailed assessment and reports on every student in the classroom.

Why use CAMS Plus & STAMS Plus Online Assessment & Reports?

A holistic approach – Make the most of the series by using the results of the assessment portion in an effective way.

Save time – Easily enter class data and produce visual reports in minutes.

Get results – Know exactly which strategies your students are excelling at and which ones to focus on to take their understanding to the next level.

Ensure continuity – Retain student data over multiple levels and years, affording quantifiable data of student and school progress.



Contact us to schedule a CAMS & STAMS Plus school visit, workshop or webinar!