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RECORD SHEETS *(Activity sheets)*

ANSWER KEYS

Using the CAMS® Plus *and* STAMS® Plus *program*

Each *CAMS® Plus* student book includes a pretest, a post test, four benchmark tests and three self-assessment forms. The pretest and post test, which both include five items for each of the 16 *STAMS® Plus* lessons, are designed to assess mastery.

The benchmarks are designed to be given at regular intervals during *STAMS® Plus* instruction. With one item for each lesson, they provide an ongoing measure of overall progress for individual students and the class as a whole.

The chart below describes common scenarios for when to administer the pretest and how to use the results.

Use	Purpose of pretest	Timing for pretest	Using pretest results
During the school year for on-level children	To determine which year-level topics children have mastered and which topics need remediation.	Give the pretest about 3 months into the school year.	Use the results to create an instructional plan for the class or small groups based on areas in which children showed weaknesses. (See *STAMS® Plus* teacher guide.)
	To assess children's mastery of a topic you have taught with your core program.	Following instruction on a specific topic with your core program, give the page or pages from the pretest that address that topic. (See page 9.)	Immediately begin *STAMS® Plus* instruction in that topic for those children who need it.
During the school year for below-level children	To identify gaps in each child's understanding of below-year-level topics.	Administer the appropriate level of the *CAMS® Plus* pretest as early in the school year as possible. Use standardised test scores to identify the year level at which the child should be tested.	Immediately begin remediation with the corresponding *STAMS® Plus* lessons at that level.

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Implementing CAMS® Plus *assessments and* STAMS® Plus *lessons*

Option 1: Data-driven instruction

1 Diagnose with *CAMS® Plus* pretest

- Use the *CAMS® Plus* pretest to place children in the *STAMS® Plus Series.* Pretest questions correspond to each of the 16 topics in the *STAMS® Plus* lessons, so results clearly identify exactly which topics your children need to study.
  (See details on pages 9–10.)

2 Instruct with *STAMS® Plus* lessons

- Use the results of the *CAMS® Plus* pretest to assign specific lessons in the *STAMS® Plus Series* to remediate areas that need improvement.
  (See the *STAMS® Plus* teacher guide for more details about instruction.)

3 Monitor progress with *CAMS® Plus* benchmarks

- Use the four *CAMS® Plus* benchmarks, each with one question per topic, to monitor children's progress at four points during the year.
  (See details on pages 11–12.)

4 Assess mastery with CAMS® Plus post test

- Use the *CAMS® Plus* post test to assess mastery of each of the 16 fundamental topics following instruction with *STAMS® Plus.*
  (See details on pages 13–14.)

Option 2: Comprehensive instruction

Suggested pacing chart for Book E

Day(s)	Lesson	Assessment and instruction	Minutes
1–5		*CAMS® Plus* pretest	30–45/day
6–10	1	Multiply 3-digit numbers	30–45/day
11–15	2	Divide mentally	30–45/day
16–20	3	Estimate quotients	30–45/day
21–25	4	1-digit divisors	30–45/day
26		*CAMS® Plus* benchmark 1	30–45
27–31	5	Zeros in the quotient	30–45/day
32–36	6	2-digit divisors	30–45/day
37–41	7	Understand mixed numbers	30–45/day
42–46	8	Add and subtract like fractions	30–45/day
47		*CAMS® Plus* benchmark 2	30–45
48–52	9	Compare related and unlike fractions	30–45/day
53–57	10	Add and subtract related fractions	30–45/day
58–62	11	Add and subtract mixed numbers	30–45/day
63–67	12	Add and subtract decimals	30–45/day
68		*CAMS® Plus* benchmark 3	30–45
69–73	13	Area	30–45/day
74–78	14	Surface area	30–45/day
79–83	15	Understand volume	30–45/day
84–88	16	Line graphs	30–45/day
89		*CAMS® Plus* benchmark 4	30–45
90–94		*CAMS® Plus* post test	30–45/day

Note: Allocate 19 weeks for full implementation of the *CAMS® Plus* and *STAMS® Plus* program, with each lesson spanning 5 school days.

The Australian Curriculum

Each book in the *CAMS® Plus*, *STAMS® Plus* and *Solve® Series* covers a range of Australian Curriculum content descriptions spread across two year levels. This allows teachers to select lessons for remediation or extension based on each student's needs. The content descriptions addressed by the lessons in Book E are listed here. Please note that not all the content descriptions for years 5 and 6 are addressed by these 16 standard lessons and 7 additional lessons (presented in bold), as the focus of the *CAMS® Plus*, *STAMS® Plus* and *Solve® Series* is on fundamental maths skills and concepts. For more information on the Australian Curriculum go to: www.australiancurriculum.edu.au.

Australian Curriculum Content Descriptions			Relevant Lesson(s)
YEAR 5	ACMNA098	Identify and describe factors and multiples of whole numbers and use them to solve problems	2 7 8 9 10 11
	ACMNA099	Use estimation and rounding to check the reasonableness of answers to calculations	1 3 5 6 12 **21 22 23**
	ACMNA100	Solve problems involving multiplication of large numbers by one- or two-digit numbers using efficient mental, written strategies and appropriate digital technologies	1 **21**
	ACMNA101	Solve problems involving division by a one-digit number, including those that result in a remainder	2 3 4 5 **22 23**
	ACMNA102	Compare and order common unit fractions and locate and represent them on a number line	9
	ACMNA103	Investigate strategies to solve problems involving addition and subtraction of fractions with the same denominator	7 8 10 11 **17**
	ACMNA104	Recognise that the place value system can be extended beyond hundredths	12 **20 21 22**
	ACMMG108	Choose appropriate units of measurement for length, area, volume, capacity and mass	13 14 15
	ACMMG109	Calculate the perimeter and area of rectangles using familiar metric units	13 14 15
	ACMMG111	Connect three-dimensional objects with their nets and other two-dimensional representations	14 15
	ACMSP119	Construct displays, including column graphs, dot plots and tables, appropriate for data type, with and without the use of digital technologies	16
	ACMSP120	Describe and interpret different data sets in context	16
	ACMNA291	Use efficient mental and written strategies and apply appropriate digital technologies to solve problems	1 2 3 4 5 6 8 **17 18 19 20 21 22 23**
YEAR 6	ACMNA123	Select and apply efficient mental and written strategies and appropriate digital technologies to solve problems involving all four operations with whole numbers	1 2 3 4 5 6
	ACMNA125	Compare fractions with related denominators and locate and represent them on a number line	7 9
	ACMNA126	Solve problems involving addition and subtraction of fractions with the same or related denominators	7 8 10 11 **17**
	ACMNA127	Find a simple fraction of a quantity where the result is a whole number, with and without digital technologies	**19**
	ACMNA128	Add and subtract decimals, with and without digital technologies, and use estimation and rounding to check the reasonableness of answers	12
	ACMNA129	Multiply decimals by whole numbers and perform divisions by non-zero whole numbers where the results are terminating decimals, with and without digital technologies	**20 21 22 23**
	ACMNA130	Multiply and divide decimals by powers of 10	**20 21 23**
	ACMMG137	Solve problems involving the comparison of lengths and areas using appropriate units	13 14
	ACMMG140	Construct simple prisms and pyramids	14 15
	ACMSP147	Interpret and compare a range of data displays, including side-by-side column graphs for two categorical variables	16