USING THE SCRIPT

Provides alternate modes of delivery:
- Visual Delivery CD-ROM includes all visual diagrams, formulas and display material
- Whiteboard and Blackline Masters (for use where electronic delivery unavailable)

Both modes are incorporated into the script.

	JEMM	JEMM+	EMM	TOTAL
Teacher delivered scripted lessons	80	120	160	360
Student Self-evaluations	4	6	8	18
Marathons	20	30	40	90
JEMM/JEMM+/EMMathon tasks	4	6	8	18
Round tasks	12	18	24	54
Challenges	4	4	4	12
TOTAL number of sessions	124	184	244	552

Lesson 1

Display VISUAL DELIVERY CD-ROM (CD-ROM) Lesson 1, or display Blackline Masters 1 and 18.

1 *Refer to CD-ROM Question 1 or Blackline Master 1.*

SNAPSHOT

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |

When counting from 1, the first 12 numbers are: ONE, TWO, THREE, FOUR *(pause)* FIVE, SIX, SEVEN, EIGHT *(pause)* NINE, TEN, ELEVEN, TWELVE.
Look at the number FIVE *(continue pointing to 5)*.
If you add **1 more** to 5 *(point to 6 and pause)* you get the next number.

Question 1 What number is **1 more** than FIVE? *(Repeat question)*
Write your answer in today's column next to Question 1.

2 *Refer to CD-ROM Question 2 or Blackline Master 1.*

SNAPSHOT

What you do appears in *italics*.

What you say appears in this type.

What you say and simultaneously point to on electronic display or whiteboard appears in CAPITAL LETTERS.

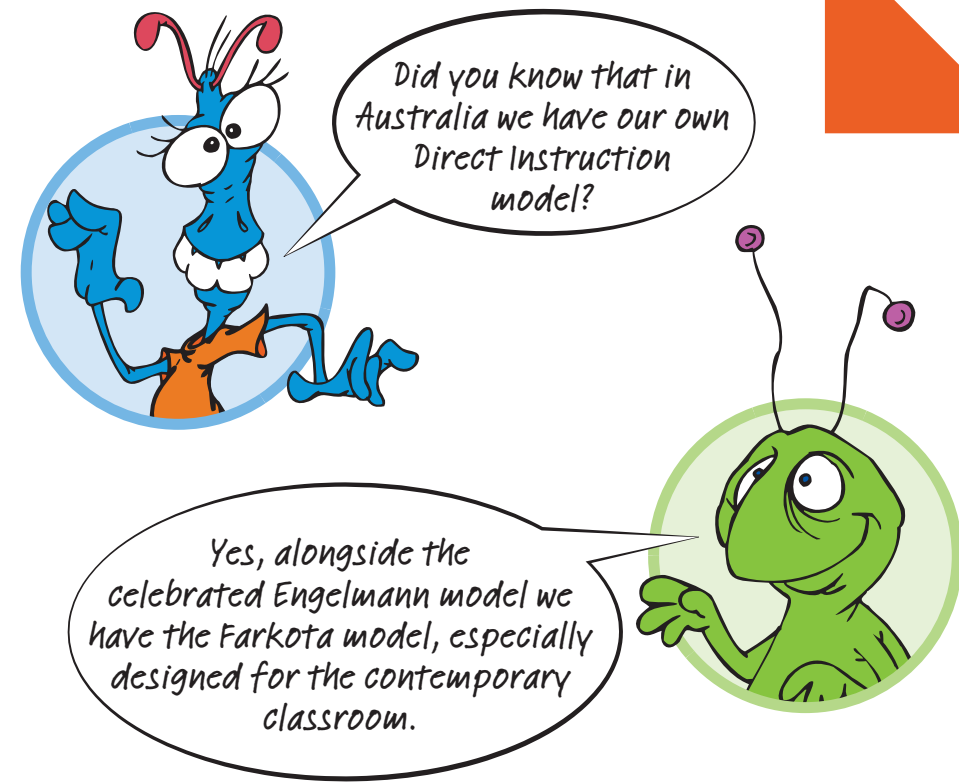What you stress is in **bold text**.

ABOUT THE AUTHOR

Dr Rhonda Farkota, a Senior Research Fellow at the Australian Council for Educational Research (ACER), has long been recognised as one of Australia's foremost experts in Direct Instruction (DI). Her doctoral research into DI, mathematics and self-efficacy was described by Professor DH Schunk, Dean of Education, University of North Carolina, as an outstanding thesis on a topic of great theoretical and applied significance. Before joining ACER in 1998, she was a Teacher and Curriculum Advisor, and sat on the Curriculum Committees of both the Education Department and the Catholic Education Office. In 2008 she was specially seconded as Assistant Director of Australia's National Assessment Program (NAPLAN™). Dr Farkota received the 2013 Mona Tobias Award in recognition of her significant contribution to evidence-based practice in education.

NAPLAN™ is a registered trademark of the Australian Curriculum, Assessment and Reporting Authority (ACARA)

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For more information about the Math Mastery Series
visit **http://acer.ac/mms** or contact ACER Customer Service
e: **sales@acer.edu.au** t: **+61 3 9277 5447**

Did you know that in Australia we have our own Direct Instruction model?

Yes, alongside the celebrated Engelmann model we have the Farkota model, especially designed for the contemporary classroom.

ACER
Australian Council *for* Educational Research

MATH MASTERY SERIES (MMS)

Employing the Farkota Direct Instruction model the MMS strikes a balance between teacher-directed and student-directed learning. Recognising that some skills are better acquired through one approach and some through the other, the MMS consists of scripted daily lessons composed of strands each starting at base level where foundations are laid. These strands proceed to build on the foundations moving through the particular concepts involved whilst all the time inter-relating with the other strands being run concurrently.

Maximising every benefit a mental math program is capable of yielding, the MMS:

* Serves as a daily diagnostic tool
* Maps student progress
* Identifies precisely where and when students experience difficulty
* Contains inbuilt assessment and correction procedures
* Instills fluency and automaticity in fundamental math skills

The Visual Delivery CD-ROM:

* Includes all visual diagrams, formulas and display material
* Maximises time efficiency
* Allows for effortless delivery
* Enhances student engagement
* Supports low-ability students
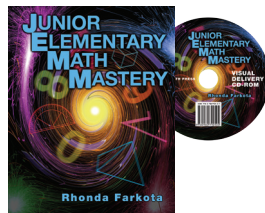
Junior Elementary Math Mastery
Rhonda Farkota
OZMATH Press 2010
....
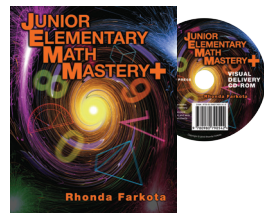
Junior Elementary Math Mastery (JEMM):

* Ideally suited for middle primary, and upper primary remedial students
* Requires daily 10–15 minutes to implement, plus 3–7 minutes for instant feedback

JEMM features 80 lessons. Students answer one question per strand daily with Lesson 1 introducing:

* Whole number addition
* Whole number subtraction
* Number facts
* Place value
* Number patterns

Building on these base strands, the following lessons introduce:

* Lesson 21 Money
* Lesson 31 Measurement
* Lesson 41 Fractions
* Lesson 51 Time
* Lesson 61 Chance and data
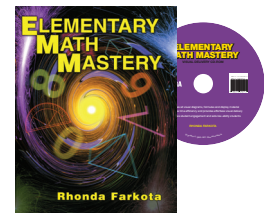
Junior Elementary Math Mastery+
Rhonda Farkota
OZMATH Press 2016
....

Junior Elementary Math Mastery+ (JEMM+):

* Ideally suited for middle primary, and upper primary remedial students
* Requires daily 15 minutes to implement, plus 5–10 minutes for instant feedback

JEMM+ features 120 lessons, each composed of 15 strands. Students answer one question per strand daily:

1. Counting	9. Measurement
2. Addition	10. Space
3. Subtraction	11. Data and Chance
4. Multiplication	12. Money
5. Division	13. Time
6. Number patterns	14. Visual perception
7. Fractions	15. Problem solving
8. Decimals	

Elementary Math Mastery
Rhonda Farkota
McGraw-Hill Australia 2003
....

Elementary Math Mastery (EMM):

* Ideally suited for upper primary, first year secondary and secondary school remedial students
* Requires daily 15–20 minutes to implement, plus 5–10 minutes for instant feedback

EMM features 160 lessons, each composed of 20 strands. Students answer one question per strand daily:

1. Addition	11. Space
2. Subtraction	12. Geometry
3. Multiplication	13. Average, percentage, ratio, chance
4. Division	
5. Number patterns	14. Math language
6. Equations and inverse operations	15. Money
	16. Time
7. Whole number properties	17. Algebra
	18. Visual perception
8. Fractions	19. Data analysis
9. Decimals	20. Problem solving
10. Measurement	

Dear Student

This is your myEMMdata workbook. Over the course of the EMM program it will show how well your abilities in mathematics are developing. It is allocated to you, and you alone, so please fill in your details on the back cover. Here's an explanation of the myEMMdata components.

Workbook components

Daily Data: Daily, you record and summarise your own data. For incorrect responses classified as Bugs, you shade the BugKey in the corresponding row on the BugBoard. This allows you and your teacher to monitor your progress.

Visual representation: This provides you with base knowledge and daily practice in reading and interpreting data to prepare you for the Round task.

Round task: EMM is structured into 32 rounds each consisting of 5 lessons. At the end of each round you read, interpret and complete tables and graphs building on the Visual representation knowledge you have acquired.

Self-evaluation: After each group of 20 lessons you self-evaluate and reflect on your growth in knowledge, understanding and achievement.
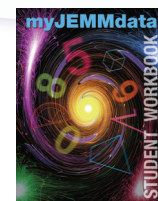
EMMathon: To demonstrate your BugFree status you do an EMMathon, which consists of questions you have already done. This will help assess how well you have consolidated your knowledge.

EMMathon to BugFree: You convert your scores to percentages to determine your BugFree status. This helps you to concentrate on personal growth rather than comparing yourself with other students.
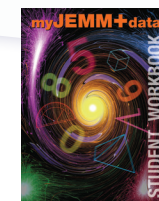
Challenge: This is designed to stimulate your thinking processes. It requires you to reflect on what you have learned.

Club BugFree Award: This is awarded when you score all correct responses over a number of consecutive lessons (to be decided by your teacher).
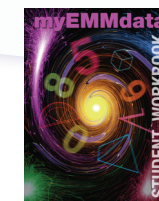
Other Awards: Accurate marking; Neat workbook.

Your myEMMdata workbook is an important academic journal that records your progress in mathematics. I hope you will enjoy using it, and take pride in keeping it accurate and true. You never know, you might like to share it with family and friends or perhaps even me.

Best Wishes
Dr Rhonda Farkota

myJEMMdata
Student Workbook

myJEMM+data
Student Workbook

myEMMdata
Student Workbook

From a teacher viewpoint the **Student Workbook** is an invaluable diagnostic tool and assessment record.