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.

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: sales@acer.edu.au t: +61 3 9277 5447

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.

Lesson 1

Display VISUAL DELIVERY CD-ROM (CD-ROM) Lesson 1, or display Blackline Masters Lesson 1 and 19.

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

SnapShot

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.

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

Listen: TWELVE, ELEVEN, TEN, NINE (pause) EIGHT, SEVEN, SIX, FIVE (pause) FOUR, THREE, TWO, ONE.

Look at the number FIVE (continue pointing to 5).

If you subtract 1 from 5 you get FOUR.

FOUR is 1 less than 5.

Question 2

What number is 1 less than FIVE?

(Repeat question)

Write your answer in today’s column next to Question 2.

Refer to CD-ROM Question 3 or write on board.

SnapShot

4 + 1 = 5
1 + 4 = 5

TURNAROUNDS

What you do appears in italics.

What you say appears in this type.

What you stress is in bold text.

What you say and simultaneously point to an electronic display or whiteboard appears in CAPITAL LETTERS.
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 students proceed to build on the foundations moving through the particular concepts involved whilst at the same time inter-relating with the other strands being taught concurrently.

Maximising every benefit a mental math program can offer, the MMS:
- Maximises time efficiency and provides effortless visual delivery
- Includes all visual diagrams, formulas and display material
- Serves as a daily diagnostic tool
- Identifies precisely where and when students experience difficulty
- Contains self-assessment and correction procedures
- Instills fluency and automaticity in fundamental math skills
- Requires daily 10–15 minutes to implement, plus 3–7 minutes for instant feedback

The Visual Delivery CD-ROM:
- Features 80 lessons. Students answer one question per strand daily with Lesson 1 introducing each.
- Includes lessons:
  - 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 2010

Junior Elementary Math Mastery (JEMM):
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Elementary Math Mastery
Rhonda Farkota
McGraw-Hill Australia 2003

Elementary Math Mastery (EMM):
- Ideally suited for upper primary, first year secondary and secondary 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
  - 2. Subtraction
  - 3. Multiplication
  - 4. Division
  - 5. Number patterns
  - 6. Equations and inverse operations
  - 7. Fractions
  - 8. Decimals
  - 9. Decimals
  - 10. Measurement
  - 11. Space
  - 12. Geometry

Other Awards:
- Club BugFree Award: This is awarded when you score 100% in your myEMMdata. 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.

Rhonda Farkota
Best Wishes
and friends or perhaps even me. 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.

Rhonda Farkota
Dr Rhonda Farkota

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