

88 Sequential Number Fact Fluency Skills

Linked to the NSW Syllabus for K-6

Sequence of Skills	NSW Syllabus Links for K-6	Links to Top Ten's Sequential Hands-on Numeracy Units
Skill 1 Subitise to 3	ES1 MAE-RWN-01	Top Ten Early Years Place Value Unit 5
Skill 2 Subitise to 6	ES1 MAE-RWN-01	Top Ten Early Years Place Value Unit 5
Skill 3 Partition 3	ES1 MAE-CSQ-01 MAE-CSQ-02	Top Ten Early Years Addition Unit 1
Skill 4 Partition 4	ES1 MAE-CSQ-01 MAE-CSQ-02	Top Ten Early Years Addition Unit 1
Skill 5 Partition 5	ES1 MAE-CSQ-01 MAE-CSQ-02	Top Ten Early Years Addition Unit 1
Skill 6 Partition 6	ES1 MAE-CSQ-01 MAE-CSQ-02	Top Ten Early Years Addition Units 1 and 4
Skill 7 Partition 7	ES1 MAE-CSQ-01 MAE-CSQ-02	Top Ten Early Years Addition Unit 4
Skill 8 One more to 4	ES1 MAE-CSQ-01 MAE-CSQ-02	Top Ten Early Years Addition Units 2 and 3
Skill 9 One more to 7	ES1 MAE-CSQ-01 MAE-CSQ-02	Top Ten Early Years Addition Units 2 and 3
Skill 10 Partition 8	ES1 MAE-CSQ-01 MAE-CSQ-02	Top Ten Early Years Addition Unit 4

Skill 11 Partition 9	ES1 MAE-CSQ-01 MAE-CSQ-02	Top Ten Early Years Addition Unit 4
Skill 12 Partition 10	ES1 MAE-CSQ-01 MAE-CSQ-02	Top Ten Early Years Addition Unit 5
Skill 13 Missing part 3	ES1 MAE-CSQ-01 MAE-CSQ-02	Top Ten Early Years Subtraction Unit 1
Skill 14 Missing part 4	ES1 MAE-CSQ-01 MAE-CSQ-02	Top Ten Early Years Subtraction Unit 1
Skill 15 Missing part 5	ES1 MAE-CSQ-01 MAE-CSQ-02	Top Ten Early Years Subtraction Unit 1
Skill 16 Missing part 6	ES1 MAE-CSQ-01 MAE-CSQ-02	Top Ten Early Years Subtraction Unit 1
Skill 17 One less up to 6	ES1 MAE-CSQ-01 MAE-CSQ-02	Top Ten Early Years Subtraction Unit 2
Skill 18 Missing part 7	ES1 MAE-CSQ-01 MAE-CSQ-02 S1 MA1-CSQ-01	Top Ten Early Years Subtraction Units 2-4
Skill 19 Missing part 8	ES1 MAE-CSQ-01 MAE-CSQ-02 S1 MA1-CSQ-01	Top Ten Early Years Subtraction Units 2-4
Skill 20 Missing part 9	ES1 MAE-CSQ-01 MAE-CSQ-02 S1 MA1-CSQ-01	Top Ten Early Years Subtraction Units 2-4

Skill 21 Missing part 10	ES1 MAE-CSQ-01 MAE-CSQ-02 S1 MA1-CSQ-01	Top Ten Early Years Subtraction Unit 5
Big Ideas: Trusting the Count checkpoint, Additive Thinking onwards		
Skill 22 Mixed adding to 6 + 6	S1 MA1-CSQ-01	Top Ten Early Years Addition Unit 4
Skill 23 Skip count by 10 from 0	S1 MA1-FG-01	Top Ten Early Years Multiplication Unit 2
Skill 24 Skip count by 5 from 0	S1 MA1-FG-01	Top Ten Early Years Multiplication Unit 2
Skill 25 Skip count by 2 from 0	S1 MA1-FG-01	Top Ten Early Years Multiplication Unit 2
Skill 26 One less up to 20	S1 MA1-RWN-01 MA1-CSQ-01	Top Ten Early Years Place Value Units 11-12 Subtraction Unit 2
Skill 27 Two less up to 20	S1 MA1-RWN-01 MA1-CSQ-01	Top Ten Early Years Place Value Units 11-12 Subtraction Unit 2
Skill 28 One more up to 99	S1 MA1-RWN-01 MA1-CSQ-01	Top Ten Early Years Place Value Units 11-12 Addition Unit 2
Skill 29 Two more up to 99	S1 MA1-RWN-01 MA1-CSQ-01	Top Ten Early Years Place Value Units 11-12 Addition Unit 2
Skill 30 One less up to 99	S1 MA1-RWN-01 MA1-CSQ-01	Top Ten Early Years Place Value Units 11-12 Subtraction Unit 2
Skill 31 Two less up to 99	S1 MA1-RWN-01 MA1-CSQ-01	Top Ten Early Years Place Value Units 11-12 Subtraction Unit 2

Skill 32 Doubles up to 9+9	S1 MA1-CSQ-01	Top Ten Early Years Addition Unit 6
Skill 33 Near doubles	S1 MA1-CSQ-01	Top Ten Early Years Addition Unit 7
Skill 34 Build/bridge to 10	S1 MA1-CSQ-01	Top Ten Early Years Addition Unit 8
Skill 35 Mixed adding to 10 + 10	S1 MA1-CSQ-01	Top Ten Early Years Addition Units 4-8
Skill 36 Ten more than any two-digit number	S1 MA1-RWN-01 MA1-RWN-02 MA1-CSQ-01	Top Ten Early Years Place Value Unit 12 Lesson 19
Skill 37 Ten less than any two-digit number	S1 MA1-RWN-01 MA1-RWN-02 MA1-CSQ-01	Top Ten Early Years Place Value Unit 12 Lesson 19
Skill 38 Twenty more than any two-digit number	S1 MA1-RWN-01 MA1-RWN-02 MA1-CSQ-01	Top Ten Early Years Place Value Unit 12 Lesson 19
Skill 39 Twenty less than any two-digit number	S1 MA1-RWN-01 MA1-RWN-02 MA1-CSQ-01	Top Ten Early Years Place Value Unit 12, Lesson 19
Skill 40 Add rounded tens numbers	S1 MA1-RWN-01 MA1-RWN-02 MA1-CSQ-01	Top Ten Early Years Place Value Unit 12 Years 3-6 Pack Addition Unit 2
Skill 41 Take away or difference between rounded tens numbers	S1 MA1-RWN-01 MA1-RWN-02 MA1-CSQ-01	Top Ten Years 3-6 Pack Subtraction Unit 2
Skill 42	S1 MA1-CSQ-01	Top Ten Years 3-6 Pack Multiplication

Doubling up to $20 + 20$		Unit 2
Skill 43 Mixed addition up to $20 + 20$	S1 MA1-CSQ-01	Top Ten Early Years Addition Units 4-8 Years 3-6 Pack Addition Unit 2
Skill 44 Mixed subtraction from up to 20	S1 MA1-CSQ-01	Top Ten Early Years Subtraction Unit 7 Top Ten Years 3-6 Pack Subtraction Unit 2
Skill 45 Doubles up to $99 + 99$	S2 MA2-AR-01	Top Ten Years 3-6 Pack Multiplication Unit 2
Skill 46 Estimate two-digit additions	S2 MA2-AR-01	Top Ten Years 3-6 Pack Addition Units 3-7
Skill 47 Add two-digit numbers mentally	S2 MA2-AR-01	Top Ten Years 3-6 Pack Addition Units 3-7
Skill 48 Estimate subtractions	S2 MA2-AR-01	Top Ten Years 3-6 Pack Subtraction Units 3-6
Skill 49 Subtract (difference between) two-digits mentally	S2 MA2-AR-01	Top Ten Years 3-6 Pack Subtraction Unit 4
Skill 50 Skip count by 4	S2 MA2-MR-01	Top Ten Years 3-6 Pack Multiplication Unit 1, particularly Target 100 Game
Skill 51 Skip count by 3	S2 MA2-MR-01	Top Ten Years 3-6 Pack Multiplication Unit 1, Target 100 Game
Skill 52 Skip count by 9, 8 and 7 from any starting point	S2 MA2-MR-01	Top Ten Years 3-6 Pack Multiplication Unit 1, particularly Target 100 Game

Big Ideas: Additive Thinking checkpoint, Multiplicative Thinking onwards		
Skill 53 Multiply by 4 (double double strategy)	S2 MA2-MR-01	Top Ten Years 3-6 Pack Multiplication Unit 2 Doubling Family
Skill 54 Multiply by 3 (double + group strategy)	S2 MA2-MR-01	Top Ten Years 3-6 Pack Multiplication Unit 4
Skill 55 Multiply by 10 (place value shift power of ten pattern)	S2 MA2-MR-01	Top Ten Years 3-6 Pack Multiplication Unit 3 Tens Family
Skill 56 Multiply by 5 (x10 halve it, or halve it x10 strategy)	S2 MA2-MR-01	Top Ten Years 3-6 Pack Multiplication Unit 3 Tens Family
Skill 57 Multiply by 9 (x10 take away a group strategy)	S2 MA2-MR-01	Top Ten Years 3-6 Pack Multiplication Unit 3 Tens Family
Skill 58 Multiply by 8 (double double double strategy)	S2 MA2-MR-01	Top Ten Years 3-6 Pack Multiplication Unit 2 Doubling Family
Skill 59 Multiply by 6	S2 MA2-MR-01	Top Ten Years 3-6 Pack Multiplication Unit 4
Skill 60 Multiply by 7	S2 MA2-MR-01	Top Ten Years 3-6 Pack Multiplication Unit 5
Skill 61 Mixed multiplication single-digit	S2 MA2-MR-01	Top Ten Years 3-6 Pack Multiplication Units 2-5
Skill 62 Mixed multiplicative strategies applied	S2 MA2-MR-01	Top Ten Years 3-6 Pack Multiplication Units 2-5
Skill 63 Half of single-digit numbers	S2 MA2-MR-01	Top Ten Years 3-6 Pack Division Unit 3

Skill 64 Half of rounded tens numbers	S2 MA2-MR-01	Top Ten Years 3-6 Pack Division Unit 3
Skill 65 Divide by 2 up to 99	S2 MA2-MR-01	Top Ten Years 3-6 Pack Division Unit 3
Skill 66 Divide by 4 (half half strategy)	S2 MA2-MR-01	Top Ten Years 3-6 Pack Division Unit 3
Skill 67 Divide by 8 (half half half strategy)	S2 MA2-MR-01	Top Ten Years 3-6 Pack Division Unit 3
Skill 68 Divide by 10 (place value shift power of ten pattern)	S2 MA2-MR-01	Top Ten Years 3-6 Pack Division Unit 3
Skill 69 Divide by 5 (÷10 double it strategy)	S2 MA2-MR-01	Top Ten Years 3-6 Pack Division Unit 3
Skill 70 Divide by 3	S2 MA2-MR-01	Top Ten Years 3-6 Pack Division Unit 4 and Unit 5
Skill 71 Divide by 6	S2 MA2-MR-01	Top Ten Years 3-6 Pack Division Unit 4 and Unit 5
Skill 72 Divide by 9	S2 MA2-MR-01	Top Ten Years 3-6 Pack Division Unit 4 and Unit 5
Skill 73 Divide by 7	S2 MA2-MR-01	Top Ten Years 3-6 Pack Division Unit 4 and Unit 5
Skill 74 Divide using close multiplication facts, adjusting for remainders	S3 MA3-MR-01	Top Ten Years 3-6 Pack Division Unit 4 and Unit 5

Skill 75 Estimate answers to multiplication and division	S3 MA3-MR-01	Top Ten Years 3-6 Pack Multiplication Unit 6 Division Unit 7
Skill 76 Multiply and divide decimals using powers of ten	S3 MA3-MR-01	Top Ten Years 3-6 Pack Multiplication Unit 9
Skill 77 50%, 25% and 10%	S3 MA3-RN-03	Top Ten Years 3-6 Pack Fractions Units 5-6

Extension-level skills when achieved at fluency pace

Sequence of Skills	NSW Syllabus Links for K-6	Link to Top Ten's Sequential Hands-on Numeracy Units
Skill 78 Compare fractions mentally	S3 MA3-RN-03 S3 MA3-RQF-01 S4 MA4-FRC-C-01	Top Ten Years 3-6 Pack Fractions Unit 4
Skill 79 Fractions, decimals and percentages along a number line	S3 MA3-RN-03 S3 MA3-RQF-01 S4 MA4-FRC-C-01	Top Ten Years 3-6 Pack Fractions Unit 6
Skill 80 Multiply two-digit numbers mentally using multiplicative strategies (not an algorithm)	S3 MA3-MR-01	Top Ten Years 3-6 Pack Multiplication Units 2-6 and Unit 8
Skill 81 Add decimals mentally	S3 MA3-AR-01	Top Ten Years 3-6 Pack Addition Unit 8
Skill 82 Subtract decimals mentally to calculate change	S3 MA3-AR-01	Top Ten Years 3-6 Pack Subtraction Unit 7
Skill 83 Random percentages of numbers	S4 MA4-FRC-C-01	Top Ten Years 3-6 Pack Fractions Units 5-6
Skill 84 Estimating addition and subtraction of fractions mentally	S3 MA3-RQF-01 S4 MA4-FRC-C-01	Top Ten Years 3-6 Pack Fractions Unit 4 and Addition Unit 9 Subtraction Unit 8

Skill 85 Add fractions with different denominators <u>(at speed)</u>	S3 MA3-RQF-01 S4 MA4-FRC-C-01	Top Ten Years 3-6 Pack Fractions Unit 4 and Addition Unit 9
Skill 86 Subtract fractions with different denominators <u>(at speed)</u>	S3 MA3-RQF-01 S4 MA4-FRC-C-01	Top Ten Years 3-6 Pack Fractions Unit 4 and Subtraction Unit 8
Skill 87 Multiply and divide fractions	S3 MA3-RQF-01 S4 MA4-FRC-C-01	Top Ten Years 3-6 Pack Fractions Units 7-8
Skill 88 Estimate answers multiplying and dividing decimals	S4 MA4-FRC-C-01	Top Ten Years 3-6 Pack Multiplication Unit 9 and Division Unit 9