Yelarbon State School
Number Facts Program

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IMPORTANT!
Although the Mental Computation Strategies booklet is a key resource used to teach Number Facts at Yelarbon State School, it is important that teachers take note of the ‘scope and sequence differences’ that exist between the YSS Number Facts Program and the Mental Computation Strategies booklet. The booklet is a resource used to support our program which has been modified since the implementation of the Australian Curriculum.

(Based on Miles SS Number Facts Booklet, Mental Computation Strategies document and C2C Maths)
The Addition Facts
(Refer to Mental Computation Strategies for strategies)

Prep:

1. Addition concept
   a. using materials, pictures and language to model and explain addition.

Year One:

2. Addition concept
   a. using materials, pictures and language to model and explain addition.

3. Recording addition facts
   • Using symbols to represent addition.
   • Recording addition facts to ten.
   • Developing thinking strategies to assist recall of addition facts to ten.

   Count on One (includes turnarounds): 0+1, 1+0, 1+1, 2+1, 1+2, 3+1, 1+3, 4+1, 1+4, 5+1, 1+5, 6+1, 1+6, 7+1, 1+7, 8+1, 1+8, 9+1, 1+9.

   Count on Two (includes turnarounds): 0+2, 2+0, 2+2, 3+2, 2+3, 4+2, 2+4, 5+2, 2+5, 6+2, 2+6, 7+2, 2+7, 8+2, 2+8.

   Count on Zero: (includes turnarounds) 0+0, 1+0, 0+1, 2+0, 0+2, 3+0, 0+3, 4+0, 0+4, 5+0, 0+5, 6+0, 0+6, 7+0, 0+7, 8+0, 0+8, 9+0, 0+9

   Doubles: 1+1, 2+2, 3+3, 4+4, 5+5, 0+0

   Addition facts to ten (includes turnarounds): 0+10, 10+0, 1+9, 9+1, 2+8, 8+2, 3+7, 7+3, 4+6, 6+4, 5+5

   Count on three (includes turnarounds): 0+3, 3+0, 1+3, 3+1, 2+3, 3+2, 3+3, 4+3, 3+4, 5+3, 3+5, 6+3, 3+6, 7+3, 3+7.
Year Two:

1. Revise the concept of addition
2. Revise the addition facts to ten
3. Concept development of addition facts beyond ten
4. Recording of addition facts beyond ten.
   - Develop thinking strategies to assist recall of addition facts beyond ten

Count on one (includes turnarounds): no new additions

Count on two (includes turnarounds): as for Year 1, 9+2, 2+9.

Count on three (includes turnarounds): as for Year 1, 3+8, 8+3, 9+3, 3+9.

Count on zero: no new additions

Doubles: 0+0, 1+1, 2+2, 3+3, 4+4, 5+5, 6+6, 7+7, 8+8, 9+9.

Addition facts to ten: no new additions

Doubles plus one (includes turnarounds): 0+1, 1+0, 1+2, 2+1, 2+3, 3+2, 3+4, 4+3, 4+5, 5+4, 5+6, 6+5, 6+7, 7+6, 7+8, 8+7, 8+9, 9+8.

Near ten (one more than ten: includes turnarounds): 2+9, 9+2, 3+8, 8+3, 4+7, 7+4, 5+6, 6+5.

Near ten (one less than ten: includes turnarounds): 0+9, 9+0, 1+8, 8+1, 2+7, 7+2, 3+6, 6+3, 4+5, 5+4.

Adding nine (includes turnarounds): 0+9, 9+0, 1+9, 9+1, 2+9, 9+2, 3+9, 9+3, 4+9, 9+4, 5+9, 9+5, 6+9, 9+6, 7+9, 9+7, 8+9, 9+8, 9+9.

Neighbours but one (includes turnarounds): 0+2, 2+0, 1+3, 3+1, 2+4, 4+2, 3+5, 5+3, 4+6, 6+4, (This may be difficult for some students to grasp – they can be covered by other strategies except for the following – 5+7, 7+5, 8+6, 6+8)

Remaining facts (includes turnarounds): 8+4, 4+8, 8+5, 5+8, 5+7, 7+5, 8+6, 6+8

(Based on Miles SS Number Facts Booklet, Mental Computation Strategies document and C2C Maths)
Year Two: (cont’d)

The Tens facts: (the following and their turnarounds)

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Year Three:

Consolidation of the addition facts and strategies taught in Years 1 and 2.

Year Four:

Consolidation leading to mastery.

Years Five to Six:

Mastery of all addition facts and strategies.

(Based on Miles SS Number Facts Booklet, Mental Computation Strategies document and C2C Maths)
The Subtraction Facts
(Refer to Mental Computation Strategies)

Prep:

Subtraction Concept: Develop the subtraction concept using materials, pictures and language to model and explain subtraction.

Year One:

Subtraction Concept: Develop the subtraction concept using materials, pictures and language to model and explain subtraction.

Year Two:

The Subtraction Facts: Revise and formalize the concept of subtraction – use materials, pictures and language to model and explain subtraction.

Revise subtraction facts using symbols to represent subtraction. Develop think strategies to recall easy facts:

Count on one: 1-0, 2-1, 3-2, 4-3, 5-4, 6-5, 7-6, 8-7, 9-8, 10-9.
Count on two: 2-0, 3-1, 4-2, 5-3, 6-4, 7-5, 8-6, 9-7, 10-8, 11-9.
Count on three: 3-0, 4-1, 5-2, 6-3, 7-4, 8-5, 9-6, 10-7, 11-8, 12-9.
Count back one: 1-1, 2-1, 3-1, 4-1, 5-1, 6-1, 7-1, 8-1, 9-1, 10-1.
Count back two: 2-2, 3-2, 4-2, 5-2, 6-2, 7-2, 8-2, 9-2, 10-2, 11-2.
Count back three: 3-3, 4-3, 5-3, 6-3, 7-3, 8-3, 9-3, 10-3, 11-3, 12-3.
Doubles: 0-0, 2-1, 4-2, 6-3, 8-4, 10-5, 12-6, 14-7, 16-8, 18-9.
Zeros – all taken: 0-0, 1-1, 2-2, 3-3, 4-4, 5-5, 6-6, 7-7, 8-8, 9-9,
Zeros – none taken: 0-0, 1-0, 2-0, 3-0, 4-0, 5-0, 6-0, 7-0, 8-0, 9-0.
Tens Facts: 10-1, 10-2, 10-3, 10-4, 10-5, 10-6, 10-7, 10-8, 10-9.
Tens: eg: 3 tens take 1 ten

(Based on Miles SS Number Facts Booklet, Mental Computation Strategies document and C2C Maths)
Year Three:

1. Revise Year Two work

2. Subtraction Facts

   Concept development of harder subtraction facts and recording of same. Develop thinking strategies to assist the recall of harder subtraction facts.

   **Double plus one:** 1—0, 3-1, 5-2, 7-3, 9-4, 11-5, 13-6, 15-7, 17-8.

   **Near doubles:** 1-1, 3-2, 5-3, 7-4, 9-5, 11-6, 13-7, 15-8, 17-9.

   **One more than ten:** 11-2, 11-3, 11-4, 11-5, 11-6, 11-7, 11-8, 11-9.

   **Take all the ones and one more:** 9-0, 10-1, 11-2, 12-3, 13-4, 15-6, 16-7, 17-8, 18-9.

   **Take nine away from ten:** 9-9, 10-9, 11-9, 12-9, 13-9, 14-9, 15-9, 16-9, 17-9, 18-9.

   **Take eight away from ten:** 8-8, 9-8, 10-8, 11-8, 12-8, 14-8, 15-8, 16-8, 17-8.

   **Remaining facts:** 12-4, 12-5, 12-7, 13-5, 14-6

Years Four to Six:

Mastery of all subtraction facts and their strategies

(Based on Miles SS Number Facts Booklet, *Mental Computation Strategies* document and C2C Maths)
The Multiplication Facts
(Refer to Mental Computation Strategies booklet)

Year Two:
1. Recognise and represent multiplication as repeated addition, groups and arrays

Year Three:
1. Revise and formalize the concept of multiplication – using language, unstructured and structured materials, pictures and diagrams to model and explain multiplication.
2. Use numbers and everyday language to represent multiplication. (eg: 3 rows of 4; 3 groups of 4)
3. Introduce the symbol for multiplication and use it to record multiplication.
5. Easier Multiplication Facts:

The zero facts and their turnarounds:

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The one facts and their turnarounds:

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0 & 1 & 2 & 3 & 4 & 5 & 6 & 7 & 8 & 9 & 10 & 11 & 12
\end{array}
\]

The two facts and their turnarounds:

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\begin{array}{cccccccccccc}
0 & 1 & 2 & 3 & 4 & 5 & 6 & 7 & 8 & 9 & 10 & 11 & 12 \\
0 & 2 & 4 & 6 & 8 & 10 & 12 & 14 & 16 & 18 & 20 & 22 & 24
\end{array}
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The three facts and their turnarounds:

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\begin{array}{cccccccccccc}
0 & 1 & 2 & 3 & 4 & 5 & 6 & 7 & 8 & 9 & 10 & 11 & 12 \\
0 & 3 & 6 & 9 & 12 & 15 & 18 & 21 & 24 & 27 & 30 & 33 & 36
\end{array}
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(Based on Miles SS Number Facts Booklet, Mental Computation Strategies document and C2C Maths)
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Year Four:

1. Revise work from Year Three

2. The Harder Facts (Year 3 for some students, Year 4 for others)

The four facts and their turnarounds:

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Year Five:

1. Revise

2. Harder Facts

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The eleven facts and their turnarounds:

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The twelve facts and their turnarounds:

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Year Six:

Consolidation of multiplication facts.

(Based on Miles SS Number Facts Booklet, Mental Computation Strategies document and C2C Maths)
The Division Facts
(Refer to *Mental Computation Strategies* booklet)

Year Two:
1. Recognise and represent division as grouping into equal sets and solve simple problems using these representations

Year Three:
1. Recall multiplication facts AND related division facts

Zero Facts – no partners:
0÷1, 0÷2, 0÷3, 0÷4, 0÷5, 0÷6, 0÷7, 0÷8, 0÷9

Ones facts and their partners:
1÷1, 2÷1, 3÷1, 4÷1, 5÷1, 6÷1, 7÷1, 8÷1, 9÷1
1÷1, 2÷2, 3÷3, 4÷4, 5÷5, 6÷6, 7÷7, 8÷8, 9÷9

Two facts and their partners:
2÷2, 4÷2, 6÷2, 8÷2, 10÷2, 12÷2, 14÷2, 16÷2, 18÷2
2÷1, 4÷2, 6÷3, 8÷4, 10÷5, 12÷6, 14÷7, 16÷8, 18÷9

Three facts and their partners:
3÷3, 6÷3, 9÷3, 12÷3, 15÷3, 18÷3, 21÷3, 24÷3, 27÷3
3÷1, 6÷2, 9÷3, 12÷4, 15÷5, 18÷6, 21÷7, 24÷8, 27÷9

Five facts and their partners:
5÷5, 10÷5, 15÷5, 20÷5, 25÷5, 30÷5, 35÷5, 40÷5, 45÷5
5÷1, 10÷2, 15÷3, 20÷4, 25÷5, 30÷6, 35÷7, 40÷8, 45÷9

Ten facts and their partners:
10÷10, 20÷10, 30÷10, 40÷10, 50÷10, 60÷10, 70÷10, 80÷10, 90÷10
10÷1, 20÷2, 30÷3, 40÷4, 50÷5, 60÷6, 70÷7, 80÷8, 90÷9

(Based on Miles SS Number Facts Booklet, *Mental Computation Strategies* document and C2C Maths)
Year Four:

1. Revise Year three content

2. Introduce division number facts.

Four facts and their partners:

4÷4, 8÷4, 12÷4, 16÷4, 20÷4, 24÷4, 28÷4, 332÷4, 36÷4
4÷1, 8÷2, 12÷3, 16÷4, 20÷5, 24÷6, 28÷7, 32÷8, 36÷9

Six facts and their partners:

6÷6, 12÷6, 18÷6, 24÷6, 30÷6, 36÷6, 42÷6, 48÷6, 54÷6
6÷1, 12÷2, 18÷3, 24÷4, 30÷5, 36÷6, 42÷7, 48÷8, 54÷9

Seven facts and their partners:

7÷7, 14÷7, 21÷7, 28÷7, 35÷7, 42÷7, 49÷7, 56÷7, 63÷7
7÷1, 14÷2, 21÷3, 28÷4, 35÷5, 42÷6, 49÷7, 56÷8, 63÷9

Eight facts and their partners:

8÷8, 16÷8, 24÷8, 32÷8, 40÷8, 48÷8, 56÷8, 64÷8, 72÷8
8÷1, 16÷2, 24÷3, 32÷4, 40÷5, 48÷6, 56÷7, 64÷8, 72÷9

Nine facts and their partners:

9÷9, 18÷9, 27÷9, 36÷9, 45÷9, 54÷9, 63÷9, 72÷9, 81÷9
9÷1, 18÷2, 27÷3, 36÷4, 45÷5, 54÷6, 63÷7, 72÷8, 81÷9

Year Five:

1. Revise Year four content

2. Introduce the following harder facts (Year 4 for some students, Year 5 for others)

Square Number facts:

1÷1, 4÷2, 9÷3, 16÷4, 25÷5, 36÷6, 49÷7, 64÷8, 81÷9

Eleven facts and their partners:

11÷11, 22÷11, 33÷11, 44÷11, 55÷11, 66÷11, 77÷11, 88÷11, 99÷11
11÷1, 22÷2, 33÷3, 44÷4, 55÷5, 66÷6, 77÷7, 88÷8, 99÷9

(Based on Miles SS Number Facts Booklet, Mental Computation Strategies document and C2C Maths)
Twelve facts and their partners:

12÷1, 24÷12, 36÷12, 48÷12, 60÷12, 72÷12, 84÷12, 96÷12, 108÷12
12÷1, 24÷2, 36÷3, 48÷4, 60÷5, 72÷6, 84÷7, 96÷8, 108÷9

120÷12, 132÷12, 144÷12
120÷10, 132÷11, 144÷12

Year Six:

1. Consolidate Year 5 facts and strategies
2. Harder facts:

(Based on Miles SS Number Facts Booklet, Mental Computation Strategies document and C2C Maths)