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| :---: | :---: | :---: | :---: | :---: | :---: |
| Must achieve during first six months | Must achieve during first year |  | Must achieve during second year | Progress outcome by end of year 3 Number \& Algebra | Maths Aotearoa |
|  | - Multiply and divide by making equal groups and using grouping or counting |  | - Multiply and divide by grouping and using number patterns | I know that: <br> Multiplication and division involve recognising and working with groups, the number of groups and the total. The commutatuve property applies to multiplication (e.g. $5 \times 2=2 \times 5$ ) <br> The multiplicative identity is 1 (e.g. $5 \times 1=54 \div 1=4$ ) <br> I know how to: <br> - Multiply two single digit numbers or multiply a single digit and a two digit number <br> - Divide whole digit numbers with a single digit divisor and no remainders <br> - Recall multiplication and corresponding division facts for $2 \mathrm{~s}, 5 \mathrm{~s}$ and 10 s <br> - Use multiplicative identity (1) and commutative property. | Book 1a: Unit 4 Book 1b: Unit 2 Unit 3 Book 2a: Unit 2 |
| Phase 2: Multiplication \& Division wih identified "worry point" if not achieved during the progress |  |  |  |  |  |
| Must achieve during year 4 |  | Must achieve during year 5 |  | Progress outcomes by end of year 6 |  |
| Use the relationship between multiplication and division to divide Recall multiplication and corresponding division facts for 3 s and 4 s |  | - Multiply two digit numbers using the distributive property <br> - Multiply reliably and efficiently <br> - Recall multiplication and corresponding division facts for $6 \mathrm{~s}, 8 \mathrm{~s}$ and 9 s |  | I know that: <br> Multiplication and division problems can involve equal groups, rates, comparisons, combinations, part-whole relationships, areas and volumes. <br> The associative property applies to multiplication (e.g $3 \times(2 \times 7)=(3 \times 2) \times 7$ <br> The distributive property applies to multiplication over addition \& subtraction.(e.g. $3 \times(10+7)=(3 \times 10)+3 \times 7)$ I know how to: <br> - Multiply two and three digit whole numbers <br> - Divide whole numbers by one or two digit divisors <br> - Find factors of numbers up to 100 <br> - Recall multiplication facts to $10 \times 10$ and corresponding division facts <br> - Use the distributive, commutative and associative properties | Book 2b: Unit 2 Unit 5 Book 3a: Unit 1 Unit 3 Unit 5 Book 3b: Unit 1 Unit 3 |
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