# MATHEMATICS NUMBER CONTINUUM 

NEXUS

## Learning Continuum for Number

Overall Expectations for Phase 1 - Number
 represent quantities.

Overall Expectations for Phase 2 - Number

 model fractions and use fraction names in real-life situations.

Overall Expectations for Phase 3 - Number

 problems involving addition, subtraction, multiplication and division, using estimation strategies to check the reasonableness of their answers.

## Overall Expectations for Phase 4 - Number


 use mental and written strategies to solve problems involving whole numbers, fractions and decimals in real-life situations, using a range of strategies to evaluate reasonableness of answers.

| N-Y2 |  | Nursery | Kindergarten | Year 1 | Year 2 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Place Value of Whole Numbers |  | - Recite number names in order to 10 , <br> - Recognise numerals up to 10. <br> - Compare and order numerals up to 10 . <br> - Recognise groups of 0-5 objects without counting. (subitising) <br> - Match numeral and quantity correctly with some numbers to10. <br> - Compare groups of objects, more and less. <br> - Count objects accurately. (1-1 correspondence) | - Place Value of Whole Numbers: <br> - Recite number names in order to 20. <br> - Read and write numerals up to 20. <br> - Compare and order numerals up to 20. <br> - Count objects accurately. (1-1 correspondence) <br> - Match numeral and quantity correctly 1-10. <br> - Find one more and one less than a group of objects and a given number. <br> - Recognise groups of 0-10 objects without counting. (subitising) | - Say, read and write numerals up to 99 . <br> - Compare (<,>,=) and order numerals up to 99. <br> - Explain the value of each digit in a 2 digit number. <br> - Demonstrate place value of 2 digit numbers in a variety of ways (eg. unifix cubes, base 10, abacus,). <br> - Explain the expanding form of 2 digit numbers (eg. $97=90+7$ ). <br> - Explain the relationship between the place value positions in 2 digit numbers (eg. 4 tens $=40,10$ ones $=1$ ten). <br> - Write numbers to 10 in word form. <br> - Read, write and use ordinal numbers up to 'tenth' and symbols (eg: 1st, 2nd, 3rd) <br> - Recognise groups of 0-10 objects without counting (subitising) | - Say, read and write numerals up to 999. <br> - Compare (<,>,=) and order numerals up to 999. <br> - Explain the value of each digit in a 3 digit number. <br> - Count forwards and backwards by 10 for any given number up to 999. (PF) <br> - Demonstrate place value of 3 digit numbers in a variety of ways (eg. abacus, base 10). <br> - Explain the expanding form of 3 digit numbers (eg. $897=800+90+7$ ). <br> - Explain the relationship between the place value positions in 3 digit numbers (eg. 10 ones $=1$ ten, 40 tens $=400$ ). <br> - Write numbers to 20 in word form. |
| Vocabulary |  | - Digit <br> - Number <br> - Total <br> - All together <br> - Counting on, <br> - Counting back <br> - More <br> - Less <br> - Equals: Answer, Makes | - Digit <br> - Number <br> - Total <br> - All together <br> - Counting on, <br> - Counting back <br> - More <br> - Less <br> - Equals: Answer, Makes | - More/Greater than <br> - Fewer/Less than <br> - Number sentence <br> - Digit <br> - Number <br> - Value <br> - Equals: Answer, Makes | - Predict/think.. <br> - Greater than <br> - Less than <br> - Number sentence <br> - Digit <br> - Number <br> - Value |
| Pattern \& Function (see also P\&F related to Problem Solving) |  |  | - Create, describe and extend simple patterns with objects. | - Understand the properties and associated number patterns of odd and even numbers to 20. <br> - Explore the relationship between addition and subtraction (eg. fact families). <br> - Identify and continue number patterns skip counting in $2 \mathrm{~s}, 5 \mathrm{~s}$ and 10 s . <br> - Count forwards and backwards in 1s and 10s using a 100 chart. (PF) | - Understand the properties and associated number patterns of odd and even numbers. <br> - Explore the relationship between addition and subtraction (eg. fact families). <br> - Follow and describe rules for number patterns and analyse patterns to make predictions and problem solve. <br> - Create and extend number patterns, for example skip counting. (eg. 6, 9, 12 _, _, _,). <br> - Use the vocabulary of comparing and ordering for balancing number sentences (eg $3+5=10$ - ?). |
| Vocabulary |  |  |  |  |  |
| Addition | Mental Strategies |  | - Use vocabulary of addition in practical experiences. <br> - Use manipulatives and visual representations to add single digit numbers, e.g. loose parts, number <br> - lines, tens frame. <br> - Explore number bonds to 5 . | - Using 10 s frames to show a visual representation of how numbers are added. (eg $13=10+3)$. <br> - Automatically recall number bonds to 5 and work on and calculate numbers bonds to 10 . <br> - Know doubles to 10 and apply to solve simple problems. <br> For mental strategy development: <br> - Using jump strategy to count up in 1 s from the largest number on a number line. (Explicit within strategies) | - Use tidy tens strategy with a two digit and 1 digit number with written recording. <br> - Automatically recall number bonds to 10 and calculate number bonds to 20 . . <br> - Use doubles and near doubles using the compensation strategy with numbers to 10 . (eg $8+9=8+8+1$ ) <br> For mental strategy development: <br> - In written form, use the jump strategy to mentally add a 1 digit number to a 2 digit number or pairs of 2 digit numbers using |

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|  |  |  |  | - In written form, use the jump strategy to mentally add a 1 digit number to a 2 digit number using standard and open number lines. | standard and open number lines. |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Written Strategies |  |  | - Write a linear number sentence using the addition and equal sign. <br> - Identify key vocabulary in word problems and solve 1 step addition calculations. | - Independently write a linear addition number sentence. <br> - Use vertical column addition to add 2 digit numbers without regrouping. <br> - Appropriately set out vertical column addition calculations and add starting at the ones column. <br> - Identify key vocabulary in word problems and solve 1 step addition calculations. |
| Vocabulary |  |  | - I estimate... <br> - Number sentence <br> - Digit <br> - Number <br> - Total <br> - All together <br> - Plus (for the symbol) <br> - Counting on, <br> - Equals: Answer, Makes | - Total <br> - All together <br> - Plus (for the symbol) <br> - Counting on | - Total <br> - All together <br> - Plus (for the symbol) <br> - Counting on |
| Subtraction | Mental Strategies |  | - Use vocabulary of subtraction in practical experiences. <br> - Use manipulatives and visual representations to takeaway single digit numbers, e.g. loose parts, number lines, tens frame. | - Understand and use vocabulary associated with subtraction. <br> - Understand that subtraction must start with the largest number. <br> For mental strategy development: <br> - With visual scaffolding, use a number line to calculate simple subtraction problems. <br> - Identify key vocabulary in word problems and solve 1 step subtraction calculations <br> - using manipulatives. | - Understand and use vocabulary associated with subtraction. <br> - Understand and explain why subtraction must start with the largest number. <br> - Mentally subtract within 10. <br> For mental strategy development: <br> - In the written form, use a standard and open number lines to subtract. <br> - With visual scaffolding, mentally subtract a 1 digit number from a 2 digit number using 'tidy tens' (eg. 12-3 is the same as 12-2-1). |
|  | Written Strategies |  |  |  | - Independently write a linear subtraction number sentence. <br> - Use vertical column method to subtract 2 digit numbers without regrouping. <br> - Appropriately set out vertical column subtraction calculations and subtract starting at the ones column. <br> - Identify key vocabulary in word problems and solve 1 step subtraction calculations. |
| Vocabulary |  |  | - Take away <br> - Minus (for the symbol) <br> - Counting back <br> - Less <br> - Equal: Answer, makes | - Take away <br> - Minus (for the symbol) <br> - Counting back <br> - Difference between | - Take away <br> - Minus (for the symbol) <br> - Counting back <br> - Difference between |
| Multiplication | Mental Strategies |  |  | - Use pictures, and manipulatives to demonstrate an understanding that multiplication is <br> - equal grouping. <br> - Recognise and explain that multiplication is repeated addition. | - Use pictures, arrays, number lines and manipulatives (<20 objects) to demonstrate an understanding that multiplication is equal grouping. <br> - Recognise and explain that multiplication is repeated addition. (PF) |

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|  |  |  |  |  | - Solve 1 step word problems with multiplication using drawings and manipulatives. |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Written Strategies |  |  |  |  |
| Vocabulary |  |  |  | - Lots/Groups of | - Multiply <br> - Lots/Groups of <br> - Times <br> - Arrays |
| Division | Mental Strategies |  |  | - Model and explain the concept of sharing into equal groups using manipulatives. <br> - Use pictures, and manipulatives (<12 objects) to model division as equal groups. | - Model and explain the concept of sharing into equal groups using manipulatives. <br> - Use pictures, arrays, number lines and manipulatives (<20 objects) to model division as equal groups. <br> - Solve 1 step word problems with division using drawings and manipulatives. |
|  | Written Strategies |  |  |  |  |
| Vocabulary |  |  |  | - Sharing <br> - Equal groups <br> - Lots/Groups of | - Lots/Groups of <br> - Equal |
| Fractions |  |  | - In practical experiences demonstrate an understanding of half. | - Identify parts as equal or unequal. <br> - Understand a fraction is an equal part of a whole. <br> - Demonstrate an understanding of $1 / 2$ and $1 / 4$ of a whole. <br> - Demonstrate an understanding of $1 / 2$ and $1 / 4$ of a group. | - Understand and explain that fractions are an equal part of a whole. <br> - Demonstrate an understanding by drawing and shading $1 / 2,1 / 3,1 / 4,1 / 8$ of objects. <br> - Use manipulatives to demonstrate $1 / 2,1 / 3,1 / 4$ of a group. <br> - Compare and order $1 / 2,1 / 3,1 / 4,1 / 8$ using visual representations. |
| Vocabulary |  |  | - Share <br> - Half <br> - Whole | - Share <br> - Divide (NOT division) <br> - Half <br> - Whole <br> - Quarter <br> - '(Parts) Out of ...' |  |
| Place Value of Decimals |  |  |  |  |  |
| Vocabulary |  |  |  |  |  |
| Pattern and Function (see also P\&F-related to number) | Problem <br> Solving <br> Strategies |  |  | - Identify key words in a question or statement. <br> - Construct a number sentence. <br> - Use a variety of mathematical language to describe operations and processes. <br> - Distinguish between relevant and irrelevant information in a question. <br> - Understand, explain, use and apply the following strategies to assist problem solving: <br> - Draw pictures to represent information given in a problem to assist with finding a solution. <br> - Use or create models to assist with solving problems. <br> - Check solutions for their reasonableness with teacher guidance | - Identify key words in a question or statement. <br> - Construct a number sentence. <br> - Use a variety of mathematical language to describe operations and processes. <br> - Distinguish between relevant and irrelevant information in a question. <br> - Understand, explain, use and apply the following strategies to assist problem solving: <br> - Draw pictures to represent information given in a problem to assist with finding a solution. <br> - Use or create models to assist with solving problems. <br> - Check solutions for their reasonableness with teacher guidance. |


| Y3-Y6 |  | Year 3 | Year 4 | Year 5 | Year 6 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Place Value of Whole Numbers |  | - Say, read and write numerals up to 9999. <br> - Compare (<,>,=) and order numerals up 9 999. <br> - Explain the value of each digit in a 4 digit number. <br> - Count forwards and backwards by 10 and 100s for any given number up to 9,999 . (PF) <br> - Demonstrate place value of 4 digit numbers in a variety of ways. (eg. number line, abacus, base 10). <br> - Explain the expanding form of 4 digit numbers. (eg. $3,897=3,000+800+90+7$ ). <br> - Explain the relationship between the place value positions in 4 digit numbers (eg. 10 ones $=1$ ten; 40 tens $=400$ ). <br> - Explain how many 10s in 100 s (eg. How many 10s in 400). <br> - Write numbers to 100 in word form. | - Say, read and write numerals up to 99,999. <br> - Compare and order numerals up 99, 999. <br> - Explain the value of each digit in a 5 digit number. <br> - Count forward and backwards in multiples of 10 s from any number. <br> - Demonstrate place value of 5 digit numbers in a variety of practical ways. (eg. number line, abacus, base 10). <br> - Explain the expanding form of 5 digit numbers. (eg $14532=10000+4000+500$ $+30+2$ ). <br> - Explain the relationship between the place value positions with reference to ' 10 times bigger' or ' <br> - 10 times smaller'. <br> - Explain how many 10 s in 100,1000 or their multiples (eg. How many 10s in 400). <br> - Find the mid-point multiples of 10 (eg Midpoint of 40 and $50=45$ ) <br> - Estimate accurately the position of a number on a number line. eg 13375 on a number line demarcated into thousands. <br> - Round numbers to the nearest 10 and 100. | - Say, read and write numerals up to 999,999. <br> - Compare (<,>,=) and order numerals up 999,999. <br> - Count forwards and backwards in powers of 10 , for any given number up to 999,999 . (eg. count backwards in 10,000s from 542,003). (PF) <br> - Explain the place value of each digit for numbers up to 1,000,000. <br> - Demonstrate place value of 6 digit numbers on a numberline. <br> - Explain the expanded form of 6 digit numbers, saying the value of each digit. (eg. $142,867=100,000+40,000+2,000+800+$ $60+7$ ). <br> - Know how many tens and hundreds are in a 4 digit number. (eg. 3,400 is 34 hundreds). <br> - Round any whole number up to $1,000,000$ to the nearest $10,100,1,000,10,000$ and 100,000 | - Say, read and write numeral up to $9,999,999$. <br> - Compare (<,>,=) and order numerals up 9,999,999. <br> - Explain the value of each digit in a 7 digit number. <br> - Count forwards and backwards in powers of 10 for any given number up to 9,999,999. <br> (eg. Count forwards in 10,000s from 743,245). (PF) <br> - Demonstrate place value of 7 digit numbers on a numberline. <br> - Explain the expanding form of 7 digit numbers. (eg. 6,453,897 $=6,000,000+$ $400,000+3,000+800+90+7)$. <br> - Know how many ten, hundreds, thousands are in a 5 digit number. (eg. 33,400 is 334 hundreds). <br> - Compare and order negative numbers on a number line. <br> - Count backwards and forwards with negative whole numbers, including through zero. |
| Vocabulary |  | - digit <br> - numeral <br> - expanded form <br> - standard form <br> - rounding <br> - mid-points and benchmarks <br> - approximating <br> - place value <br> - place value columns <br> - place value grid. <br> - Ten Thousands - Thousands - Hundreds Tens - Ones | - digit <br> - numeral <br> - expanded form <br> - standard form <br> - rounding <br> - mid-points and benchmarks <br> - approximating <br> - place value <br> - place value columns <br> - place value grid. <br> - Ten Thousands - Thousands - Hundreds Tens - Ones | - digit <br> - numeral <br> - expanded form <br> - rounding <br> - approximating <br> - place value <br> - Hundred Thousands, Ten Thousands Thousands - Hundreds - Tens - Ones <br> - partition | - digit <br> - numeral <br> - expanded form <br> - rounding <br> - mid-points and benchmarks <br> - approximating <br> - place value <br> - place value columns <br> - place value grid. <br> - Ten Thousands - Thousands - Hundreds Tens - Ones <br> - integers, negative numbers <br> - base ten system |
| Place Value of Decimals | Decimal Numbers |  | - Recognise and explain that a decimal is a part of a whole. <br> - Say, read and write decimals to 1 dp . <br> - Understand and explain that a tenth can be represented as a fraction or in terms of it's place value as 0.1 <br> - Identify the image of a tenth to it's written fraction form (1/10) to it's decimal form (0.1) and to the written fraction word (one tenth) and relate to the place value chart. <br> - Order tenths on a number line. <br> - Count forwards and backwards in tenths as fractions and decimal notations. <br> - Give a number that is $1 / 10$ more or $1 / 10$ less on a decimal number line (Eg. 1/10 more | - Say, read and write decimals up to 2dp. <br> - Compare (<,> =) and order decimals up to 2dp. <br> - Count forwards and backwards in 10ths and 100ths. (PF) <br> - Identify and understand visual representations ( 100 grid) of 10ths and 100ths and relate to a place value chart <br> - Understand the relationship between decimal place value columns and their corresponding fraction. <br> - Say the number 0.1 more, 0.1 more from any number. (PF) <br> - Say the number 0.01 more, 0.01 less from any number. (PF) | - Say, read and write decimals up to 3dp. <br> - Compare (<,> =) and order decimals up to 3dp. <br> - Count forwards and backwards in thousandths, hundredths, tenths. (PF) <br> - Say the number 0.1 more, 0.1 more from any number. (PF) <br> - Say the number 0.01 more, 0.01 less from any number. (PF) <br> - Round to the nearest whole number from a decimal number. <br> - Round to the nearest tenth and hundredth. <br> - Identify the image of a thousandth to it's written fraction form ( $1 / 1000$ ), to it's decimal form (0.001), and to the written fraction word |

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|  |  | - > = < | - negative numbers <br> - zero <br> - > = < <br> - square numbers (related to area) |  | - formula, rule <br> - tenths, hundredths, <br> - decimal point <br> - place value column <br> - place value chart <br> - decimal number <br> - to 1 decimal place |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Addition | Mental Strategies | - Mentally use tidy tens strategy with a two digit and 1 digit number. <br> - Mentally automatically recall and use number bonds to 20 . <br> - Understand the relationship between the number bonds to 10 and adding multiples of 10. (eg 3+7=10 therefore $30+70=100)$ <br> - Mentally use doubles and near doubles using the compensation strategy with numbers to 20. <br> - (eg $14+15=14+14+1)$ <br> For mental strategy development: <br> - In the written form, use the Split strategy to mentally add pairs of 2 or 3 digit numbers without regrouping. <br> - In the written form, use the Jump strategy to mentally add pairs of 2 or 3 digit numbers using a number <br> - line. <br> - Adding using jump and split strategies in written form up to 3 digits. | - Use and apply understanding of vocabulary associated with addition to written and verbal problems. <br> - Recall, understand and use Number Bonds to 100. <br> - Use number bonds in mental addition calculations (eg. $37+23$ ). <br> - Understand the relationship between number bonds to 20 and adding multiples of 10 and 100 (eg. $13+7=20$ therefore $130+70=200$ ). <br> - Mentally use knowledge of 'tidy tens' numbers when using the Jump strategy to add numbers. <br> - Create addition and subtraction 'Fact Families'. <br> - Mentally use the Split strategy to add pairs of 2 digit numbers . <br> - Reorder lists of numbers to make tidy numbers to assist with addition. (eg. $12+19$ $+3+8+1=(12+8)+(19+1)+3$ <br> For mental strategy development: <br> - In the written form, use the Split strategy to mentally add pairs of 2 or 3 digit numbers. <br> - In the written form, use the Jump strategy to mentally add pairs of 2 or 3 digit numbers using an open number line. <br> - In the written form, use models such as 'number trees' and 'bar models' to assist use of split strategy to add 2 or 3 digit numbers. | - Recall, understand and use Number Bonds to 1000. <br> - Choose from a broad range of mental strategies to solve problems involving whole numbers <br> - Use split strategy when adding numbers with up to 4 digits. <br> - Use jump strategy when adding numbers with up to 4 digits. <br> - Use rounding and compensating strategy when adding numbers with up to 4 digits. <br> - Use split strategy when adding numbers up to 1dp. <br> - Use jump strategy when adding numbers up to 1dp. <br> - Use tidy numbers strategy when adding numbers up to 1dp. <br> - Use rounding and compensating strategy to add numbers up to 1dp. <br> - Use reversibility to solve addition problems of whole numbers and decimal numbers with 'missing numbers' in the calculation. <br> For mental strategy development: <br> - In written form, use split strategy to add decimal numbers up to 2 dp . <br> - In written form, use jump strategy to add decimal numbers up to 2dp. <br> - In written form, use tidy numbers to add numbers up to 2dp. <br> - In written form, use rounding and compensating to add numbers up to $2 d$ p. | - Choose efficient strategy to solve problems (agility of understanding numbers and which strategy is most suitable). Learners may not be proficient in using all strategies but have a repertoire to choose from. <br> - Use split strategy when adding numbers in the ten thousands and thousands respectively. <br> - Use jump strategy when adding numbers in the ten thousands and thousands respectively. <br> - Use rounding and compensating strategy when adding numbers in the ten thousands and thousands respectively. <br> - Find a difference between two negative or positive numbers using a number line. <br> - Use split strategy when adding numbers up to 2dp. <br> - Use jump strategy when adding numbers up to 2dp. <br> - Use tidy numbers strategy when adding numbers up to 2dp. <br> - Use rounding and compensating strategy when adding numbers up to 2dp. <br> - Use reversibility strategy to solve addition problems of whole numbers and decimal numbers. <br> For mental strategy development: <br> - In written form, use split strategy when adding decimal numbers up to $3 d p$. <br> - In written form, use jump strategy when adding decimal numbers up to 3dp. <br> - In written form, use tidy numbers strategy when adding numbers up to 3 dp . <br> - In written form, use rounding and compensating strategy when adding numbers up to 3 dp . |
|  | Written <br> Strategies | - Use vertical column addition to add 3 digit numbers with regrouping <br> - Identify key vocabulary in word problems and solve 1 step addition calculations. <br> - Use and apply appropriate addition strategies with 2 and 3 digit numbers in problem solving situations. | - Use written Vertical column addition using regrouping numbers using 3 and 4 digit numbers. <br> - Use and apply appropriate addition strategies with 3 and 4 digit numbers in problem-solving situations. <br> - Use rounding to assess the reasonableness of solutions to addition problems. | - Use a written strategy (vertical column) to add numbers including regrouping numbers across zeros using up to 5 digits <br> - Use a written strategy (vertical column) to add decimal numbers, including tenths and hundredths e.g. 75.7 + 92.05 |  |
| Vocabulary |  | Operation Vocabulary: <br> - addition <br> - plus | Operation Vocabulary: <br> - addition <br> - plus | Operation Vocabulary: <br> - subtract <br> - minus <br> - decrease | Operation Vocabulary <br> - addition <br> - plus <br> - total |

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|  |  | - total <br> - sum <br> - altogether <br> - increase by <br> - greater than <br> - more than <br> Strategy Vocabulary: <br> - number bonds <br> - tidy numbers <br> - reorder <br> - split strategy <br> - jump strategy <br> - vertical column method <br> Process Vocabulary: <br> - partition a number = splitting a number <br> - exchange <br> - regroup <br> Models and Tools: <br> - Number trees <br> - Bar models <br> - Tidy numbers <br> - Addition + subtraction fact families <br> - Number sentence | - total <br> - sum <br> - altogether <br> - increase by <br> - greater than <br> - more than <br> Strategy Vocabulary: <br> - number bonds <br> - tidy numbers <br> - reorder <br> - split strategy <br> - jump strategy <br> - vertical column method <br> Process Vocabulary: <br> - partition a number = splitting a number <br> - exchange <br> - regroup <br> Models and Tools: <br> - Number trees <br> - Bar models <br> - Tidy numbers <br> - Addition + subtraction fact families <br> - Number sentence | - less than <br> - fewer than <br> Strategy Vocabulary: <br> - Jump strategy <br> - split strategy <br> - compensation strategy <br> - 'tidy numbers' <br> - reversibility <br> - 'inverse' <br> - Vertical column method Process Vocabulary: <br> - exchange <br> - regroup | - sum <br> - altogether <br> - increase by <br> - greater than <br> - more than <br> - difference <br> - partition <br> Strategy Vocabulary: <br> - number bonds <br> - tidy numbers <br> - reorder <br> - split strategy <br> - jump strategy <br> - vertical column method <br> - rounding and compensating strategy <br> Process Vocabulary: <br> - partition a number = splitting a number <br> - exchange <br> - regroup <br> Models and Tools: <br> - Number line <br> - Number trees <br> - Bar models <br> - Tidy numbers <br> - Addition + subtraction fact families <br> - Number sentence <br> - Equation |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Subtraction | Mental Strategies | - Understand and use vocabulary associated with subtraction. <br> - Mentally use subtraction within 20. <br> For mental strategy development: <br> - Use and apply appropriate subtraction strategies with 3 and 4 digit numbers in problem solving situations. <br> - Subtract using the jump strategy up to 3 digits using an open number line. <br> - With visual scaffolding, mentally subtract a 2 digit number from a 2 digit number using 'tidy tens' (eg. 21-13 is the same as 21-1-102). | - Understand and use vocabulary associated with subtraction. <br> - Use number bonds in mental subtraction of 2 digit calculations. <br> - Mentally subtract numbers from 100 using number bond knowledge (eg. 100-27 = 73). <br> - Understand and explain that subtraction is the reverse operation to addition. <br> - Understand that the significance of the order of the numbers in a subtraction calculation. <br> - Reorder lists of numbers to make 'tidy numbers' to assist with subtraction (eg. 56 -$48=[(56-6)-2]-40$ <br> For mental strategy development: <br> - In the written form, subtract 3 digit numbers using the jump strategy on an open number line. <br> - In the written form. subtract 2 digit numbers using the jump strategy using 'tidy tens'. | - Choose efficient strategy to solve problems (agility of understanding numbers and which strategy is most suitable). <br> - Use jump strategy to subtract numbers numbers with up to 4 digits <br> - Use rounding and compensating strategy to subtract numbers with up to 4 digits. <br> - Use reversibility (counting on) strategy to subtract numbers which are close together. <br> - Use tidy numbers strategy when subtracting numbers up to 1dp. <br> For mental strategy development: <br> - In written form, use jump strategy to subtract numbers up to 1dp. <br> - Use reversibility (counting on) to subtract numbers with up to 4 digits. <br> - Use rounding and compensating strategy to subtract numbers up to 1 dp . <br> - In written form, use tidy numbers strategy when subtracting numbers up to 1dp. | - Choose efficient strategy to solve problems (agility of understanding numbers and which strategy is most suitable). Learners may not be proficient in using all strategies but have a repertoire to choose from. <br> - Use jump strategy when subtracting numbers in the ten thousands and thousands respectively. <br> - Use rounding and compensating strategy when subtracting numbers in the ten thousands and thousands respectively. <br> - Use equal additions strategy when subtracting numbers in the ten thousands and thousands respectively. <br> - Use jump strategy when subtracting numbers up to 2 dp . <br> - Use tidy numbers strategy when subtracting numbers up to 2dp. <br> - Use rounding and compensating strategy when subtracting numbers up to 2 dp . <br> - Use equal additions strategy when subtracting numbers up to 2dp. <br> - Use reversibility strategy to solve subtraction problems of whole numbers and decimal numbers. <br> For mental strategy development: <br> - In written form, use jump strategy when subtracting decimal numbers up to 3dp. |


|  |  |  |  |  | - In written form, use tidy numbers strategy when subtracting numbers up to 3dp. <br> - In written form, use rounding and compensating strategy when subtracting numbers up to 3 dp . |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Written Strategies | - Use vertical column method to subtract 3 digit numbers. <br> - Regrouping in subtraction but not across zeros (eg. 243-178). <br> - 1 step problem solving with subtraction. | - Use and explain vertical column method for subtraction of 4 digit numbers, using regrouping. <br> - Use the vertical column method to subtract 3 and 4 digit numbers across zeros. <br> - (eg. 500-156 =.....) <br> - Use and apply subtraction strategies in problem-solving situations using 4 digit numbers in one and 2 step <br> - written problems. <br> - Use rounding to assess the reasonableness of solutions to subtraction problems. | - Use a written strategy (vertical column) to subtract numbers including regrouping across zeros <br> - Use a written strategy (vertical column) to subtract decimal numbers e.g. in the context of money |  |
| Vocabulary |  | Operation Vocabulary: <br> - subtract <br> - take away <br> - minus <br> - decrease <br> - less than <br> - fewer than <br> - difference <br> - how many left <br> Strategy Vocabulary: <br> - Jump strategy <br> - Vertical column method <br> Process Vocabulary: <br> - exchange <br> - regroup <br> Models and Tools Vocabulary: <br> - 'tidy tens' (multiples of 10 to bridge) <br> - number sentences <br> - Addition + Subtraction fact families | Operation Vocabulary: <br> - subtract <br> - take away <br> - minus <br> - decrease <br> - less than <br> - fewer than <br> - difference <br> - how many left <br> Strategy Vocabulary: <br> - Jump strategy <br> - Vertical column method <br> Process Vocabulary: <br> - exchange <br> - regroup <br> Models and Tools Vocabulary: <br> - 'tidy tens' (multiples of 10 to bridge) <br> - number sentences <br> - Addition + Subtraction fact families | Operation Vocabulary: <br> - subtract <br> - minus <br> - decrease <br> - less than <br> - fewer than <br> - difference between <br> Strategy Vocabulary: <br> - Jump strategy <br> - rounding and compensating <br> - reversibility (counting on) <br> - Vertical column method <br> Process Vocabulary: <br> - exchange <br> - regroup | Operation Vocabulary: <br> - subtract <br> - take away <br> - minus <br> - decrease <br> - less than <br> - fewer than <br> - difference <br> - how many left <br> - partition <br> Strategy Vocabulary: <br> - Jump strategy <br> - Round and compensating strategy <br> - Vertical column method <br> - Equal addition strategy <br> Process Vocabulary: <br> - exchange <br> - regroup <br> Models and Tools Vocabulary: <br> - 'tidy tens' (multiples of 10 to bridge) <br> - number sentences <br> - equation <br> - Addition + subtraction fact families |
| Multiplication | Mental Strategies | - Use pictures, arrays, number lines and manipulatives to demonstrate an understanding of multiplication. <br> - Recognise and explain that multiplication is repeated addition. (PF) <br> - Recognise the commutative property of multiplication (eg. $2 \times 5=105 \times 2=10$ ). <br> - Using fact families to explain the relationship between multiplication and division. <br> - Use doubling as a strategy to solve multiplication problems. ( $2 \times 4=8$ so $4 \times 4=$ 16). <br> - Use automatic recall of facts in the $2,3,5$, and | - Use pictures, arrays, models and manipulatives to explain the concept of multiplication. <br> - Use automatic recall of facts in the $2,3,4,5$, 6,9 and 10 multiplication tables. <br> - Use known facts to solve unknown facts. (eg: knowing $6 \times 5$, be used can work out to $7 \times 5$ ) <br> - Recognise and apply 'Fact Families' of multiplication + division to solve problems. (PF) <br> - Multiply whole numbers by 10 and 100. <br> - Mentally double 2 digit numbers where the ones and tens are 5 or lower (eg. $24 \times 2=48$ ). | - Understand and automatically recall all multiplication and division facts in the 2 to 12. ( $7 x$ and $8 x$ tables introduced in Year 5). <br> - Multiply numbers including decimals numbers by 10,100 , and 1,000 . <br> - Multiply whole numbers by a multiple of ten (eg. $40 \times 7=4 \times 7 \times 10$ and $50 \times 200=10,000$ ) <br> - Use split strategy to multiply 3 digits by 1 digit number mentally (eg. $142 \times 3=(100 \times 3)+(40$ $\mathrm{x} 3)+(2 \times 3)$ <br> - Use rounding and compensating strategy to multiply numbers mentally, x 9, 11, 99, 101 <br> - Double any 2 digit number | - Choose an efficient strategy to solve problems (agility of understanding numbers and which strategy is most suitable). Learners may not be proficient in using all strategies but have a repertoire to choose from. <br> - Use split strategy to multiply a single digit number by a number with a decimal (eg. 5 x 2.3). <br> - Use rounding and compensating strategy to multiply a single digit number by a number with a decimal (eg. $5 \times 2.3$ ). <br> - Use split strategy to multiply 2 digits by 2 digit numbers up to 20 , (eg. $25 \times 15$ ). |

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|  |  | 10 multiplication tables. <br> - Solve 1 step word problems with multiplication. <br> - Use their knowledge of grouping to solve multiplication problems. <br> For mental strategy development: <br> - Recognise the pattern for multiplying by 10 and 100. (PF) | - Demonstrate how square numbers are formed in context of area, <br> - Recognise and find factors and multiples of numbers in known multiplication tables. <br> For mental strategy development: <br> - In the written form, use 'doubling' to assist with mental multiplication (eg. $9 \times 8=(9 \times 4)$ doubled. <br> - In the written form, use the split strategy to mentally multiply 2 digit by 1 digit numbers [eg. $23 \times 2=(20 \times 2)+(3 \times 2)$. <br> - In the written form, double 2 digit numbers in which the 'ones' place value digit is higher than 5 (eg. $17 \times 2$ ). <br> - Choose and use mental strategies to solve real life multiplication problems. | - Use 'doubling' to assist with mental multiplication. (eg. $9 \times 8=(9 \times 4)$ doubled. <br> - Use known facts to assist with mental multiplication (e.g. $14 \times 3=(14 \times 2)+14$ | - Use doubling and halving / trebling and thirding to multiply up to 2 digits by 2 digit numbers. <br> - Use split strategy to multiply 3 digits by a multiple of ten up to 100 (eg. $326 \times 20=$ ). <br> - Use rounding and compensating strategy to multiply 3 digits by a multiple of ten up to 100 (eg. $326 \times 20=$ ). |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Written Strategies | - Use and explain the grid method to multiply a 2 or 3 digit numbers by a single digit from a known multiplication table. <br> - Use the vertical column method to multiply a 2 or 3 digit numbers by a single digit from a known multiplication table. <br> - Use multiplication strategies to solve written problems. | - Use and explain the grid method to multiply a 3 or 4 digit numbers by a single digit from a known multiplication table. <br> - Use the vertical column method to multiply a 3 or 4 digit numbers by a single digit from a known multiplication table. <br> - Use multiplication strategies to solve written problems. | - Use the vertical column method to multiply 2 digit by 2 digit numbers. <br> - Use the grid method to multiply 3 digit by 2 digit numbers. <br> - Use the lattice method to multiply 2 digit by 2 digit numbers. <br> - Choose a preferred method to use as a written strategy for multiplication (by the end of the Year) | - Choose efficient strategy to solve problems (agility of understanding numbers and which strategy is most suitable). Learners may not be proficient in using all strategies but have a repertoire to choose from. <br> - Use the vertical column calculation to multiply 3 digit by 2 digit numbers. <br> - Use the grid method to multiply 3 digit by 2 digit numbers. <br> - Use the lattice method to multiply 3 digit by 2 digit numbers. |

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|  |  | - vertical column method <br> Process Vocabulary: <br> - regroup <br> - exchange <br> - partition <br> - split <br> Models and Tools: <br> - Multiplication fact families <br> - Model bars <br> - Grids <br> - Number trees (Number Pyramid) <br> - Multiplication tables | - vertical column method <br> Process Vocabulary: <br> - regroup <br> - exchange <br> - partition <br> - split <br> Models and Tools: <br> - Multiplication fact families <br> - Model bars <br> - Grids <br> - Number trees (Number Pyramid) <br> - Multiplication tables | - grid method <br> - vertical column method. <br> Process Vocabulary: <br> - regroup <br> - exchange <br> - partition <br> - split <br> Models and Tools: <br> - Multiplication fact families <br> - Model bars <br> - Grids <br> - Number trees <br> - Multiplication tables | - factor <br> - square numbers (in relation to Area) <br> Multiplication Strategies Vocabulary: <br> - arrays <br> - split strategy <br> - doubling and halving strategy <br> - proportional adjustment <br> - rounding and compensating strategy <br> - grid method <br> - vertical column method <br> - vertical column calculation <br> - lattice method <br> Process Vocabulary: <br> - regroup <br> - exchange <br> - partition <br> - split <br> Models and Tools: <br> - Multiplication fact families <br> - Bar models <br> - Grids <br> - Number lines <br> - Number trees <br> - Multiplication tables |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Division | Mental Strategies | - Recognise and explain the relationship between multiplication and division. <br> - Recognise and explain through drawings and use of manipulatives that division is separating a quantity into equal parts. <br> - Use a number line to show the relationship between division and subtraction (eg. 20-5-5 $-5-5=0$ ). <br> - Understanding that dividing by 2 is halving using numbers to 20 . <br> - Solve 1 step word problems with division. | - Recognise and explain through drawings and use of manipulatives that division is repeated subtraction. <br> - Understand and explain the concept of 'remainders' when dividing numbers. <br> - Quick automatic recall of division facts in the 2 , $3,4,5$, and 10 multiplication tables. <br> - Division by 10 to leave a whole number. eg. ( $420 \div 10=42$ ). <br> - Find half of the multiples of 10 (e.g. half of 50 ). <br> - Find half of the even numbers by partitioning with numbers 50 . (eg. Half of $38 \ldots$ (eg. half of $30+$ (half of 8) <br> - Explore, explain and use the divisibility rules for numbers within the 2, 3, 4, 5, 10 multiplication tables. <br> - Use understanding of inverse operation to solve division problems (through fact families). <br> For mental strategy development: <br> - In the written form, find half of numbers below 100 when both tens and ones digit is an even number. | - Divide whole numbers by 10,100 , and 1,000 to leave a decimal to 2 dp . <br> - Know divisibility test for multiples of 3, 4, 6 and 9 and apply knowledge when dividing. <br> - Divide numbers mentally using split strategy and knowledge of grouping e.g. $39 \div 3=(30 \div$ 3) and ( $9 \div 3$ ) <br> - Use multiplication facts to solve mental division calculations e.g. $125 \div 5$ (Split 125 into groups of 5 . How many groups of 5 can be made) ( 20 groups of $5=100)(5 \times 5=25)$ so $125 \div 5=25$ <br> - Find Halve any 2 digit number. <br> - Find $1 / 4$ of a number by halving and halving again. | - Choose an efficient strategy to solve problems (agility of understanding numbers and which strategy is most suitable). Learners may not be proficient in using all strategies but have a repertoire to choose from. <br> - Use split strategy to divide up to 3 digit numbers. <br> - Divide numbers by $10,100,1000$ into decimals by shifting the digits, not the decimal point. <br> - Use tests of divisibility for multiples of 7 and 8 and review all others. |
|  | Written Strategies | - Recognise and use a number sentence to show written division (eg. $24 \div 3=8$ ). | - Recognise and use 3 different ways of expressing written division (eg. $24 \div 3=8$ or in 'bus stop' form $3 \Gamma 24$ or as a fraction $24 / 3$ ) <br> - Use the 'short division' written method to divide 2 or 3 digit numbers by a single-digit in a known multiplication table to leave solutions with and without remainders. <br> - Use written division strategies to solve written problems in real-life situations. <br> - Use knowledge of multiplication and division to | - Use the long division methods of 3 digits by 1 digit to leave a remainder. | - Choose an efficient strategy to solve problems (agility of understanding numbers and which strategy is most suitable). Learners may not be proficient in using all strategies but have a repertoire to choose from. <br> - Use the long division written method of 4 digits by 1 digit to leave a remainder. <br> - Use the long division written method of decimal to 2dp to leave a remainder. <br> - Use the short division written method to divide |

[^0]|  |  | test the reasonableness of solutions. (eg, 45 $\div 3=15$ so $15 \times 3=45$ ) |  | 4 or 5 digit numbers. <br> - Use the short division written method to divide 4 or 5 digit numbers and decimal numbers to 2dp. |
| :---: | :---: | :---: | :---: | :---: |
| Vocabulary | Operation Vocabulary: <br> - repeated subtraction <br> - share <br> - equal sharing <br> - times smaller <br> - remainder = 'left over' <br> - factors <br> Process Vocabulary: <br> - repeated subtraction <br> - divisibility <br> - inverse operation = opposite <br> Tools and Models Vocabulary: <br> - division fact families | Operation Vocabulary: <br> - repeated subtraction <br> - share <br> - equal sharing <br> - times smaller <br> - remainder = 'left over' <br> - factors <br> Process Vocabulary: <br> - repeated subtraction <br> - divisibility <br> - inverse operation = opposite <br> Strategy Vocabulary: <br> - 'short division' method = <br> - 'Bus stop' method <br> Tools and Models Vocabulary: <br> - division fact families | Operation Vocabulary: <br> - repeated subtraction <br> - equal grouping - how many 'groups' can you make with.... <br> - equal sharing <br> - times smaller <br> - remainder = 'left over' <br> - factors <br> Process Vocabulary: <br> - repeated subtraction <br> - divisibility <br> - inverse operation = opposite <br> Strategy Vocabulary: <br> - 'short division' method = <br> - 'Bus stop' method <br> - 'long division' <br> Tools and Models Vocabulary: <br> - Division fact families | Operation Vocabulary: <br> - repeated subtraction <br> - equal sharing <br> - times smaller <br> - remainder = 'left over' <br> - factors <br> Process Vocabulary: <br> - repeated subtraction <br> - divisibility <br> - inverse operation = opposite <br> - digit slide <br> Strategy Vocabulary: <br> - 'short division' method = <br> - 'Bus stop' method <br> Tools and Models Vocabulary: <br> - Division fact families |
| Fractions | - Name fractions by their images and explain what the numerator and denominator represent as an image (eg. ...out of....). <br> - Understand how a whole can be represented in numbers and pictures (eg. 5/5, 8/8 = 1 whole). <br> - Demonstrate an understanding by shading any proper fraction. (eg. $1 / 8,1 / 2,2 / 3,3 / 4,7 / 8$, 1/10). <br> - Order unitary fractions $(1 / 2,1 / 3,1 / 8)$ on a number line. <br> - Order common fractions (ie. half, quarters and eighths) on a number line (up to 1 ). <br> - Compare fractions with the same denominator using pictures and/or fraction wall (eg $1 / 4,2 / 4,3 / 4,1$, etc.). <br> - Use manipulatives to demonstrate $1 / 2,1 / 3,1 / 4$, $1 / 8$ of a group. <br> - Compare, order and explain $1 / 2,1 / 3,1 / 4,1 / 8$ using visual representation as needed. | - Show understanding of fractions by drawing and shading a fraction without a given template. <br> - Compare, order and explain 'common proper 'fractions with different denominators using pictures. (eg. $1 / 8,1 / 5,1 / 2,3 / 4,7 / 8$ ) <br> - Understand and explain what an improper fraction represents in numbers, words and images. <br> - Add and subtract simple fractions with the same denominators using images. (eg. 1/5 $+3 / 5$ ) <br> - Create an image of fractions to introduce the concept of equivalent fractions (eg. $1 / 2=2 / 4$ ). <br> - Use and explain visual and written methods of finding fractional parts of whole a <br> - group (eg, $1 / 3$ of 24 and $2 / 3$ of 24 ). <br> Application: <br> - Find unitary fractional parts of quantities when using measurements (eg. $1 / 4$ of 800 g =) <br> - Convert fractional parts of an hour to minutes when solving time problems. | - Count forwards and backwards in steps of $1 / 2$, 1/4 1/10, <br> - Recognise and create equivalent fractions (including $1 / 10$ s, $1 / 100$ s in preparation for percentages, eg: 10/50 $=20 / 100$ ) <br> - Compare two fractions by finding a common denominator e.g. $3 / 5$ and $7 / 10$ <br> - Order a set of fractions with 2 different denominators e.g. 4/5, 2/10, 5/10 1/5 <br> - Convert an improper fraction to a mixed number and vice versa. <br> - Find a fraction of a set number when solving problems e.g. finding $2 / 3$ of 42 <br> - Place fractions on a number line (up to and beyond 1, eg: 8/5) <br> - Add two fractions where one denominator is a multiple of the other e.g. $1 / 2+1 / 4$ <br> - Draw decimal fractions on 100 square and in 10 strips <br> - Convert fractions with 10 ths and 100ths to decimal numbers <br> - Recall that quarter $=0.25$ and $3 / 4=0.75$ <br> - Recognise the percent symbol (\%) and understand that per cent relates to 'number of parts per hundred', <br> - Write percentages as a fraction with denominator of 100, and as a decimal. <br> - Find simple percentages $(10 \%, 50 \%)$ | - Count forwards and backwards in fractions of tenths, fifths, quarters, thirds. (eg. 1/4, 2/4, 3/4, 1,5/4). (PF) <br> - Say the number $1 / 10$ more, $1 / 10$ less. (PF) <br> - Say the number $1 / 100$ more, $1 / 100$ less. (PF) <br> - Find equivalent fractions by identifying a common denominator up to hundredths. <br> - Order fractions by finding a common multiple as the denominator (eg. $3 / 10,4 / 5,5 / 20$, 40/100) <br> - Add \& subtract fractions of common denominators. <br> - Recall conversions between decimals, fractions and percentages with $1 / 2,1 / 4,1 / 3$, $1 / 5$ and $1 / 10$. <br> - Find fractions of sets (eg. 4/9 of 54). <br> - Convert complex fractions to decimals ( $1 / 7$, $1 / 8$ ) using division strategies. <br> - Convert simple fractions to percentages by finding equivalent fractions. <br> - Find percentages of numbers (eg. $80 \%$ of 45 ). <br> - Application: <br> - Use the most appropriate fraction (mixed or improper) when responding to problem solving questions. |
| Vocabulary | - fraction <br> - unit fraction (numerator $=1$ ) <br> - numerator <br> - denominator <br> - fractional part or a quantity | - fraction <br> - unit fraction (numerator $=1$ ) <br> - numerator <br> - denominator <br> - fractional part or a quantity | - fraction <br> - unit fraction (numerator $=1$ ) <br> - numerator <br> - denominator <br> - fractional part or a quantity <br> - equivalent fractions | - fraction <br> - unit fraction (numerator $=1$ ) <br> - numerator <br> - denominator <br> - fractional part or a quantity <br> - equivalent fractions |


|  |  | - equivalent fractions <br> - out of <br> - part/whole | - equivalent fractions <br> - equivalence <br> - out of <br> - quantity / groups/ set | - equivalence <br> - out of <br> - common denominator <br> - improper <br> - mixed number <br> - percent <br> - percentage | - equivalence <br> - common denominator <br> - part whole <br> - part(s) of <br> - out of |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Place Value of Decimals |  | - Understand that a decimal separates whole \$ from part of the dollar (cents). <br> - Add and subtract decimals in real life situations involving money. <br> - Compare the amount of money from the written form and through coins (eg. $\$ 0.50$. \$0.05). <br> (All of these learning objectives fall under measurement for reporting purposes) |  |  |  |
| Pattern and Function (see also P\&F-related to number) | Problem <br> Solving <br> Strategies |  | - Identifying key words in a question or statement. <br> - Construct a number sentence. <br> - Use a variety of mathematical language to describe operations and processes. <br> - Distinguishing between relevant and irrelevant information in a question. <br> - Understand, explain, use and apply the following strategies to assist problem solving: <br> - 'Guess + Check' strategy. <br> - drawing information given in a problem to assist with finding a solution. <br> - use or create models to assist with solving problems. <br> - work backwards through a problem. <br> - use an example to assist with other similar types of problems. <br> - use a chart or diagram to organise information. <br> - Choose a suitable strategy to solve a problem. <br> - Order number operation or steps within a multi-step problem. <br> - Orally explain the processes used to solve the problem. <br> - Check solutions for their reasonableness. <br> - Use knowledge of the properties of numbers to check reasonableness of solutions (eg. odd and even rules when adding, subtracting of multiplying numbers) | - Identifying key words in a question or statement. <br> - Construct a number sentence. <br> - Use a variety of mathematical language to describe operations and processes. <br> - Distinguishing between relevant and irrelevant information in a question. <br> - Understand, explain, use and apply the following strategies to assist problem solving: <br> - 'Guess + Check' strategy. <br> - drawing information given in a problem to assist with finding a solution. <br> - use or create models to assist with solving problems. <br> - work backwards through a problem. <br> - use an example to assist with other similar types of problems. <br> - use a chart or diagram to organise information. <br> - Choose a suitable strategy to solve a problem. <br> - Order number operation or steps within a multi-step problem. <br> - Orally explain the processes used to solve the problem. <br> - Check solutions for their reasonableness. <br> - Use knowledge of the properties of numbers to check reasonableness of solutions (eg. odd and even rules when adding, subtracting of multiplying numbers) | - Identifying key words in a question or statement. <br> - Construct a number sentence. <br> - Use a variety of mathematical language to describe operations and processes. <br> - Distinguishing between relevant and irrelevant information in a question. <br> - Understand, explain, use and apply the following strategies to assist problem solving: <br> - 'Guess + Check' strategy. <br> - drawing information given in a problem to assist with finding a solution. <br> - use or create models to assist with solving problems. <br> - work backwards through a problem. <br> - use an example to assist with other similar types of problems. <br> - use a chart or diagram to organise information. <br> - Choose a suitable strategy to solve a problem. <br> - Order number operation or steps within a multi-step problem. <br> - Orally explain the processes used to solve the problem. <br> - Check solutions for their reasonableness. <br> - Use knowledge of the properties of numbers to check reasonableness of solutions (eg. odd and even rules when adding, subtracting of multiplying numbers) |
| Vocabulary |  |  | - estimate <br> - approximate <br> - predictions reasonable a quantity <br> - calculations <br> - model <br> - solution | - estimate <br> - approximate <br> - predictions reasonable a quantity <br> - calculations <br> - model <br> - solution | - estimate <br> - approximate <br> - predictions reasonable a quantity <br> - calculations <br> - model <br> - solution |


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