3.4.3 Grade 3 overview per term

		GRADE 3 OVERVI 1. NUMBERS, OPERATIONS AND		
TOPICS	TERM 1	TERM 2	TERM 3	TERM 4
NUMBER CO	NCEPT DEVELOPMENT: Count with who	ble numbers		
1.1 Count	Group to at least 200 objects to estimate and count reliably.	Group to at least 500 objects to estimate and count reliably.	Group to at least 700 objects to estimate and count reliably.	Group to at least 1 000 objects to estimate and count reliably.
objects	Give a reasonable estimate of a number of objects that can be checked by counting.	Give a reasonable estimate of a number of objects that can be checked by counting.	Give a reasonable estimate of a number of objects that can be checked by counting.	Give a reasonable estimate of a number of objects that can be checked by counting.
	The strategy of grouping is encouraged.	The strategy of grouping is encouraged	The strategy of grouping is encouraged.	The strategy of grouping is encouraged.
1.2	Count forwards and backwards in:	Count forwards and backwards in:	Count forwards and backwards in:	Count forwards and backwards in:
Count forwards	 1s, from any number between 0 and 200 	 1s, from any number between 0 and 500 	 1s, from any number between 0 and 700 	 1s, from any number between 0 and 1 000
and backwards	 10s from any multiple of 10 between 0 and 200 	 10s from any multiple of 10 between 0 and 500 	 10s from any multiple of 10 between 0 and 700 	 10s from any multiple of 10 between 0 and 1 000
	 5s from any multiple of 5 between 0 and 200 	 5s from any multiple of 5 between 0 and 500 	 5s from any multiple of 5 between 0 and 700 	 5s from any multiple of 5 between 0 and 1 000
	 2s from any multiple of 2 between 0 and 200 	 2s from any multiple of 2 between 0 and 500 	 2s from any multiple of 2 between 0 and 700 	 2s from any multiple of 2 between 0 and 1 000
	 3s from any multiple of 3 between 0 and 200 	 3s from any multiple of 3 between 0 and 500 	 3s from any multiple of 3 between 0 and 700 	 3s from any multiple of 3 between 0 and 1 000
	 4s from any multiple of 4 between 0 and 200 	 4s from any multiple of 4 between 0 and 500 	 4s from any multiple of 4 between 0 and 700 	 4s from any multiple of 4 between 0 and 1 000
	• 100s to at least 500	• 50s,100s to at least 1 000	• 20s, 25s, 50s,100s to at least 1 000	• 20s,25s, 50s,100s to at least 1 000

CAPS

TOPICS	TERM 1	TERM 2	TERM 3	TERM 4
NUMBER CC	NCEPT DEVELOPMENT: Represent who	le numbers		·
1.3 Number	Identify, recognise and read numbers	Identify, recognise and read numbers	Identify, recognise and read numbers	Identify, recognise and read numbers
symbols and	 Identify, recognise and read number symbols 0 to 500 	 Identify, recognise and read number symbols 0 to 1 000 	 Identify, recognise and read number symbols 0 to 1 000 	 Identify, recognise and read number symbols 0 to 1 000
number names	Write number symbols 0 to 500	Write number symbols 0 to1000	Write number symbols 0 to1000	Write number symbols 0 to1000
	Identify, recognise and read number names 0 to 250	 Identify, recognise and read number names 0 to 250 	 Identify, recognise and read number names 0 to 500 	 Identify, recognise and read number names 0 to1 000
	Write number names 0 to100	• Write number names 0 to 250	• Write number names 0 to 500	Write number names 0 to1000
NUMBER CC	NCEPT DEVELOPMENT: Describe, comp	pare and order whole numbers		
1.4 Describe.	Describe, compare and order numbers to 99.	Describe, compare and order numbers to 500.	Describe, compare and order numbers to 700.	Describe, compare and order numbers to 999.
compare and order numbers	Compare whole numbers up to 99 using smaller than, greater than, more than, less than and is equal to	 Compare whole numbers up to 500 using smaller than, greater than, more than, less than and is equal to 	 Compare whole numbers up to 700 using smaller than, greater than, more than, less than and is equal to 	 Compare whole numbers up to 999 using smaller than, greater than, more than, less than and is equal to
	Order whole numbers up to 99 from smallest to greatest, and greatest to smallest	 Order whole numbers up to 500 from smallest to greatest, and greatest to smallest 	 Order whole numbers up to 700 from smallest to greatest, and greatest to smallest 	 Order whole numbers up to 999 from smallest to greatest, and greatest to smallest
			Use ordinal numbers to show order, place or position	
			 Use, read and write ordinal numbers, including abbreviated form up to 31st 	
NUMBER CC	NCEPT DEVELOPMENT: place value			1
1.5 Place value	Recognise the place value of numbers to 99	Recognise the place value of numbers to 500	Recognise the place value of numbers to 700	Recognise the place value of numbers to 999
	Know what each digit represents	Know what each digit represents	Know what each digit represents	Know what each digit represents
	 Decompose two-digit numbers up to 99 into multiples of tens and ones/ units 	 Decompose three-digit numbers up to 500 into multiples of hundreds, tens and ones/units 	 Decompose three-digit numbers up to 700 into multiple of hundreds, tens and ones/units 	 Decompose three-digit numbers up to 999 into multiple of hundreds, tens and ones/units
	 Identify and state the value of each digit 	 Identify and state the value of each digit 	 Identify and state the value of each digit 	 Identify and state the value of each digit

TOPICS	TERM 1	TERM 2	TERM 3	TERM 4
SOLVE PROB	LEMS IN CONTEXT			
1.6 Problem- solving	Use the following techniques when solving problems:	Use the following techniques when solving problems:	Use the following techniques when solving problems:	Use the following techniques when solving problems and explain solutions to problems:
techniques	 building up and breaking down numbers 	 building up and breaking down numbers 	 building up and breaking down numbers 	 building up and breaking down numbers
	doubling and halving	 doubling and halving 	doubling and halving	 doubling and halving
	number lines	number lines	number lines	number lines
		rounding off in tens	rounding off in tens	rounding off in tens
1.7 Addition and subtraction	Solve word problems in context and explain own solution to problems involving addition and subtraction with answers up to 99.	Solve word problems in context and explain own solution to problems involving addition and subtraction with answers up to 400.	Solve word problems in context and explain own solution to problems involving addition and subtraction with answers up to 800.	Solve word problems in context and explain own solution to problems involving addition and subtraction with answers up to 999.
1.8 Repeated addition leading to multiplication	Solve number problems in context and explain own solution to problems involving multiplication with answers up to 50.	Solve number problems in context and explain own solution to problems involving multiplication with answers up to 75.	Solve number problems in context and explain own solution to problems involving multiplication with answers up to 75.	Solve number problems in context and explain own solution to problems involving multiplication with answers up to 100
1.9 Grouping and sharing leading to division	Solve number problems in context and explain own solutions to problems that involve equal sharing and grouping up to 50 with answers that may include remainders.	Solve number problems in context and explain own solutions to problems that involve equal sharing and grouping up to 75 with answers that may include remainders.	Solve number problems in context and explain own solutions to problems that involve equal sharing and grouping up to 75 with answers that may include remainders.	Solve number problems in context and explain own solutions to problems that involve equal sharing and grouping up to 100 with answers that may include remainders.
1.10 Sharing leading to fractions	Solve and explain solutions to practical problems that involve equal sharing leading to solutions that include unitary and non-unitary fractions e.g. $\frac{1}{2}$, $\frac{1}{4}$, $\frac{2}{3}$ etc.	Solve and explain solutions to practical problems that involve equal sharing leading to solutions that include unitary and non-unitary fractions e.g. $\frac{1}{2}$, $\frac{1}{4}$, $\frac{3}{4}$, $\frac{2}{5}$ etc.	Solve and explain solutions to practical problems that involve equal sharing leading to solutions that include unitary and non-unitary fractions e.g. $\frac{1}{2}$, $\frac{4}{4}$, $\frac{3}{4}$, $\frac{2}{5}$ etc.	Solve and explain solutions to practical problems that involve equal sharing leading to solutions that include unitary and non-unitary fractions e.g. $\frac{1}{2}$, $\frac{1}{4}$, $\frac{3}{4}$, $\frac{2}{5}$ etc.
1.11 Money	 Recognise and identify the South African coins and bank notes 	Recognise and identify the South African coins and bank notes	Recognise and identify the South African coins and bank notes	Recognise and identify the South African coins and bank notes
	 Solve money problems involving totals and change in rands or cents 	 Solve money problems involving totals and change in rands or cents 	 Solve money problems involving totals and change in rands or cents 	Solve money problems involving totals and change in rands or cents
			Convert between rands and cents	Convert between rands and cents

1.12	E CALCULATIONS Use the following techniques when performing calculations:	Use the following techniques when	Line the following techniques when	
	performing calculations:	÷ .	Lies the following techniques when	
		performing calculations:	Use the following techniques when performing calculations:	Use the following techniques when performing calculations:
(methods or strategies)	 building up and breaking down numbers 	 building up and breaking down numbers 	 building up and breaking down numbers 	 building up and breaking down numbers
······	 doubling and halving 	 doubling and halving 	doubling and halving	doubling and halving
	number lines	number lines	number lines	number lines
		rounding off in tens	rounding off in tens	rounding off in tens
1.13	Add up to 99	Add up to 400	Add up to 800	Add up to 999
Addition and	Subtract from 99	Subtract from 400	Subtract from 800	Subtract from 999
subtraction	• Use appropriate symbols (+, –, =, □)	• Use appropriate symbols (+, –, =, \Box)	• Use appropriate symbols (+, –, =, \Box)	• Use appropriate symbols (+, –, =, □)
	 Practise number bonds to 20 	Practise number bonds to 30	Practise number bonds to 30	Practise number bonds to 30
1.14	• Multiply numbers 1 to 10 by 2, 5, 3, 4	• Multiply 2, 4, 5, 10, 3 to a total of 50	• Multiply 2, 3, 4, 5, 10 to a total of 100	• Multiply 2, 3, 4, 5, 10 to a total of
Repeated addition leading to multiplication	 Use appropriate symbols (x, =, □) 	 Use appropriate symbols (x, =, □) 	 Use appropriate symbols (x, =, □) 	 100 Use appropriate symbols (x, =, □)
1.15	• Divide numbers to 50 by 2, 5, 10	• Divide numbers to 50 by 2, 4, 5,	• Divide numbers to 99 by 2, 4, 5,	• Divide numbers to 99 by 2, 3, 4,
Division	 Use appropriate symbols (÷, =, □) 	 10, 4 Use appropriate symbols (÷, =, □) 	 10, 3, Use appropriate symbols (÷, =, □) 	 5,10 Use appropriate symbols (÷, =, □)

TOPICS	TERM 1	TERM 2	TERM 3	TERM 4
1.16	Number concept: Range 200	Number concept: Range 500	Number concept: Range 750	Number concept: Range 999
Mental athematics	 Order a given set of selected numbers. Range 200 	 Order a given set of selected numbers. Range 500 	 Order a given set of selected numbers 	Order a given set of selected numbers
	 Compare numbers to 200 and say which is: 	 Compare numbers to 500 and say which is: 	 Compare numbers to 200 and say which is: 	 Compare numbers to 1000 and say which is:
	- 1 more or 1 less	- 1 more or 1 less	- 1 more or 1 less	- 1 more or 1 less
	- 2 more or 2 less	- 2 more or 2 less	- 2 more or 2 less	- 2 more or 2 less
	- 3 more or 3 less	- 3 more or 3 less	- 3 more or 3 less	- 3 more or 3 less
	- 4 more or 4 less	- 4 more or 4 less	- 4 more or 4 less	- 4 more or 4 less
	- 5 more or 5 less	- 5 more or 5 less	- 5 more or 5 less	- 5 more or 5 less
	- 10 more or 10 less	- 10 more or 10 less	- 10 more or 10 less	- 10 more or 10 less
	Rapid recall:	Rapid recall:	Rapid recall:	Rapid recall:
	Addition and subtraction facts to 20	Addition and subtraction facts to 20	Addition and subtraction facts to 20	Addition and subtraction facts to 20
	Add or subtract multiples of 10 from 0 to 100	Add or subtract multiples of 10 from 0 to 100	Add or subtract multiples of 10 from 0 to 100	Add or subtract multiples of 10 from 0 to 100
				Multiplication and division facts for the:
				- two times table up to 2 x 10
				- ten times table up to 10 x 10
	Mental strategies	Mental strategies	Mental strategies	Mental strategies
	Use calculation strategies:	Use the following calculation strategies	Use the following calculation strategies:	Use the following calculation strategies
	 Put the larger number first in order to count on or count back 	Put the larger number first in order to count on or count back	Put the larger number first in order to count on or count back	Put the larger number first in order to count on or count back
	Number line	Number line	Number line	Number line
	Doubling and halving	Doubling and halving	Doubling and halving	Doubling and halving
	Building up and breaking down	Building up and breaking down	Building up and breaking down	Building up and breaking down
	 Use the relationship between addition and subtraction 	 Use the relationship between addition and subtraction 	 Use the relationship between addition and subtraction 	Use the relationship between addition and subtraction
			 Use the relationship between multiplication and division 	 Use the relationship between multiplication and division

ATC

TOPICS	TERM 1	TERM 2	TERM 3	TERM 4
1.17 Fractions	 Use and name unitary fractions including halves, quarters thirds, fifths 	 Use and name unitary fractions including halves, quarters eighths, thirds, sixths, fifths 	 Use and name unitary and non- unitary fractions including halves, quarters, eighths, thirds, sixths, fifths 	 Use and name unitary and non- unitary fractions including halves, quarters, eighths, thirds, sixths, fifths
	Recognise fractions in diagrammatic form	Recognise fractions in diagrammatic form	Recognise fractions in diagrammatic form	Recognise fractions in diagrammatic form
			 Begin to recognise that two halves or three thirds make one whole and that 1 half and 2 quarters are equivalent 	 Begin to recognise that two halves or three thirds make one whole and that 1 half and 2 quarters are equivalent
	Write fractions as 1half, 1third	• Write fractions as 1 half, 1third	• Write fractions as 1 half, 2 third	• Write fractions as 1 half, 2 third

MATHEMATICS GRADE 1-3

Problem Types for Grade 3

a written version of the problem as well, but she must still pose the problem orally. teacher works with a small group, she should pose the problem orally. When the learners can read, she can give them These are examples of important problem types that the teacher needs to present repeatedly to her class. When the

teacher must make sure that all the learners understand them Problems in context can be included in worksheets, but should then be short, straightforward and familiar, and the

Grouping

Grouping, discarding the remainder

A bakery sells bread rolls in bags of 12. They have 118 rolls. How many bags of 12 rolls each can they make up?

Grouping, incorporating the remainder in the answer

A farmer has 227 eggs. How many egg boxes that can take six eggs each does he need to pack all the eggs?

Sharing

Sharing, discarding the remainder

Five friends share a box of 84 sweets so that they all get the same number of sweets

Sharing, leading to fractions

left over Share 15 chocolate bars among six friends so that they all get the same amount of chocolate bar and there is nothing

Fraction of a collection

Grandmother gives Kiki R12. Kiki wants to save a third of the money. How much money must she save?

fractions type and know the names of fractional pieces This problem type must only be posed after learners have solved four or five problems of the Sharing, leading to

Putting fractions together

The netball coach gives half an orange to each player. There are 14 players. How many oranges does she need?

fractions type and know the names of fractional pieces This problem type must only be posed after learners have solved four or five problems of the Sharing, leading to

Proportional sharing

Peter eat and how many slices did Rhulani eat? eats two slices, Rhulani needs four slices. After a few days, they have eaten 12 slices of bread. How many slices did Peter is smaller than Rhulani. When Peter eats one slice of bread, Rhulani needs two slices of bread. When Peter

R60. How must they share the money? Sue and Greg do a piece of work together. Sue works for three hours and Greg works for one hour. They are paid



Repeated addition

How many wheels do 36 cars have?

Rate

Thami saves 35c every week. How much money does he save in 8 weeks?

Grids

Mr Khumalo plants 20 rows of orange trees. There are 12 trees in a row. How many trees are there altogether?

Addition and subtraction

ways. The basic types are: There are at least three basic types of addition and subtraction problems and each type can be posed in different

Change

Noluthando collected 234 stickers. Silo gave her 80 more stickers. How many stickers does she have now?

There were 500 passengers on a train and 176 passengers got off. How many passengers were left on the train?

Combine

packets or Zicksnacks are there? items did she collect? The shop has 368 packets of chips; 82 are chippos and the rest are Ziksnacks. How many Nosisi collects items for the school's recycling projects. She collected 124 plastic bottles and 268 tin cans. How many

Compare

Grade 2 collected R446. Grade 3 collected R729. How much more money did the Grade 3s collect?

Posing each problem in different ways

are in different places in the problem. Problems have to be posed in different ways. For example, both of these are change problems, but the "unknowns"

packets were there in the beginning? The shop had packets of mealie meal and ordered 55 more . Now there are 170 packets of mealie meal. How many

packets did they sell? The shop had 500 packets of sugar. After selling some packets, they had 324 packets of sugar left. How many

Problem situations with different functional relationships

Heila sells hotdogs at R4 each. Make a table to help her find the amount for large orders.

Cost in R	Number of hotdogs
4	
8	N
	ω
	4
	J
	10
	20

Use the table to find the cost of seven hotdogs and 23 hotdogs.

Sedick babysits. He charges R20 for travel costs, and then R5 per hour for babysitting. Complete this table for him.

Number of hours		2	ω	4	ப	10
Cost in R	25	30				

Note that Heila's problem and Sedick's problem work differently.

in the course of the year as their understanding of and familiarity with the problem types grow, and as their number a division problem may be solved by repeated subtraction, addition or multiplication. Learners' methods will change that learners often use different ways of solving a problem that may not be what the teacher expects. For example, concept develops. The above problem types are given to guide the teacher. Learners should not be burdened with type names. Note



		GRADE 3 OVERV	EW	
		2. PATTERNS, FUNCTIONS A	ND ALGEBRA	
TOPICS	TERM 1	TERM 2	TERM 3	TERM 4
2.1	Copy, extend and describe	Copy, extend and describe	Copy, extend and describe	Patterns around us
Geometric patterns	Copy, extend and describe in words	Copy, extend and describe in words	Copy, extend and describe in words	Identify, describe in words and copy geometric patterns
patterns	 simple patterns made with physical objects 	 simple patterns made with physical objects 	 simple patterns made with physical objects 	in nature
	 simple patterns made with drawings of lines, shapes or objects 	 simple patterns made with drawings of lines, shapes or objects 	 simple patterns made with drawings of lines, shapes or objects 	from modern everyday lifefrom our cultural heritage
	Range of patterns:	Range of patterns:	Range of patterns:	i nom our cultural hentage
	 Simple patterns in which shapes or groups of shapes are repeated in exactly the same way. 	 Simple patterns in which shapes, or groups of shapes are repeated in exactly the same way 		
		 Patterns in which the number or size of shapes in each stage changes in a predictable way i.e. regularly increasing patterns 	 Patterns in which the number of shapes in each stage changes in a predictable way i.e. regularly increasing patterns 	
	Create and describe own patterns	Create and describe own patterns	Create and describe own patterns	
	Create own geometric patterns	Create own geometric patterns	Create own geometric patterns	
	 with physical objects 	 with physical objects 	 with physical objects 	
	 by drawing lines, shapes or objects. 	 by drawing lines, shapes or objects. 	 by drawing lines, shapes or objects. 	
	Describe own patterns	Describe own patterns	Describe own patterns	
2.2	Copy, extend and describe	Copy, extend and describe	Copy, extend and describe	Copy, extend and describe
Number patterns	Copy, extend and describe simple number sequences to at least 200.	Copy, extend and describe simple number sequences to at least 500.	Copy, extend and describe simple number sequences to at least 750.	Copy, extend and describe simple number sequences to at least 1 000 .
	Sequences should show counting forwards and backwards in:	Sequences should show counting forwards and backwards in:	Sequences should show counting forwards and backwards in:	Sequences should show counting forwards and backwards in:
	 the intervals specified in Grade 2 with increased number ranges 	 the intervals specified in Grade 2 with increased number ranges 	 the intervals specified in Grade 2 with increased number ranges 	 the intervals specified in Grade 2 with increased number ranges
	• 100s to at least 500	• 50s,100s to at least 1 000	• 20s,25s, 50s,100s to at least 1 000	• 20s,25s, 50s,100s to at least 1 000
			Create and describe own number patterns	Create and describe own number patterns

\bigcirc
\triangleright
ň

		GRADE 3 OVERVI 3. SPACE AND SHAPE (G		
TOPICS	TERM 1	TERM 2	TERM 3	TERM 4
3.1		Position and views	Position and views	
Position, orientation and views	n	 Match different views of the same everyday object Name an everyday object when shown an unusual view of it 	 Read, interpret and draw informal maps, or top views of a collection of objects. Find objects on maps 	
		Position and directions	Position and directions	
		 Follow directions to move around the classroom and school 	 Follow directions from one place to another on an informal map 	
		Give directions to move around the classroom and school		

TOPICS	TERM 1	TERM 2	TERM 3	TERM 4
3.2		Range of objects	Range of objects	Range of objects
3-D objects		Recognise and name 3-D objects in the classroom and in pictures	Recognise and name 3-D objects in the classroom and in pictures	Recognise and name 3-D objects in the classroom and in pictures
		• ball shapes, (spheres)	ball shapes (spheres)	 ball shapes (spheres)
		box shapes (prisms)	 box shapes (prisms) 	 box shapes (prisms)
		cylinders	cylinders	cylinders
			pyramids	pyramids
			• cones	• cones
		Features of objects	Features of objects	Features of objects
		Describe, sort and compare 3-D objects in terms of:	Describe, sort and compare 3-D objects in terms of:	Describe, sort and compare 3-D objects in terms of:
		2-D shapes that make up the faces of 3-D objects	 2-D shapes that make up the faces of 3-D objects 	 2-D shapes that make up the faces of 3-D objects
		flat or curved surfaces	flat or curved surfaces	flat or curved surfaces
		Focused activities	Focused activities	
		Observe and build given 3-D objects using concrete materials such as cut-out 2-D shapes, clay, toothpicks, straws, other 3-D geometric objects	Observe and build given 3-D objects using concrete materials such as cut-out 2-D shapes, clay, toothpicks, straws, other 3-D geometric objects	
		Suggested focus and sequencing of activities for Term 2	Suggested focus and sequencing of activities for Term 3	Suggested focus and sequencing of activities for Term 4
		Work with spheres, prisms and cylinders as they did in Grade 2; name them and group them.	Work with spheres, prisms, cylinders, pyramids and cones. Focus on the kind of surfaces on each type of object.	
		Focus on the kind of surfaces on each type of object. Distinguish surfaces according to whether they are curved or flat.	Distinguish surfaces according to whether they are curved or flat. Talk about the flat surfaces on prisms and cylinders and describe them according	
		Use cut-out cardboard squares to make a box. Talk about the flat surfaces on	to whether they are circular, square, rectangular or triangular	
		prisms and cylinders and describe them according to whether they are circular, square or rectangular.	Name and group the geometric objects above.	
			Use toothpicks, straws, or rolled paper to make a pyramid.	
		Work is consolidated through written exercises.	Work is consolidated through written exercises.	Work is consolidated through written exercises.

5)
٦	
2	
	U
r	$\mathbf{}$

TOPICS	TERM 1	TERM 2	TERM 3	TERM 4
3.3	Range of shapes		Range of shapes	
2-D shapes	• Circles		Circles	
	Triangles		Triangles	
	Squares		Squares	
	Rectangles		Rectangles	
	Features of shapes		Features of shapes	
	Describe, sort and compare 2-D shapes in terms of:		Describe, sort and compare 2-D shapes in terms of:	
	• shape		shape	
	straight sides		straight sides	
	round sides		round sides	
	Suggested focus of activities for Term 1		Suggested focus of activities for Term 3	
	Name and group shapes.		Name them and group shapes.	
	Focus on the kind of sides that each shape has.		Focus on the kind of sides that each shape has.	
	Distinguish shapes by talking about whether their sides are round or straight.		Distinguish shapes by talking about whether their sides are round or straight.	
	Draw circles, squares, rectangles and triangles.		Draw circles, squares, rectangles and triangles.	
	Work is consolidated through written exercises.		Work is consolidated through written exercises.	
3.4		Symmetry		Symmetry
Symmetry		Determine line of symmetry through paper folding and reflection		Recognise and draw line of symmetry in 2-D geometrical and non-geometrical shapes
		Suggested focus of Term 2		Suggested focus of Term 4
		Paper folding activities that develop an understanding of symmetry include:		Written exercises should include examples where
		 activities in which wet paint is placed on the page before folding 		 the line of symmetry is not always a vertical line
		 activities in which paper is cut or torn from the fold line 		 there is more than one line of symmetry in the shape or object

GRADE 3 OVERVIEW					
4. MEASUREMENT					
TOPICS	TERM 1	TERM 2	TERM 3	TERM 4	
4.1	Telling the time	Telling the time	Telling the time	Telling the time	
Time	Read dates on calendars	Read dates on calendars	Read dates on calendars	Read dates on calendars	
	 Place birthdays, religious festivals, public holidays, historical events, school events on a calendar 	 Place birthdays, religious festivals, public holidays, historical events, school events on a calendar 	 Place birthdays, religious festivals, public holidays, historical events, school events on a calendar 	 Place birthdays, religious festivals, public holidays, historic events, school events on a calen 	
	Tell 12-hour time in	Tell 12-hour time in	Tell 12-hour time in	Tell 12-hour time in	
	- hours	- hours	- hours	- hours	
	- half hours	- half hours	- half hours	- half hours	
	- quarter hours	- quarter hours	- quarter hours	- quarter hours	
	- minutes	- minutes	- minutes	- minutes	
	on analogue clocks and digital clocks and other digital instruments that show time e.g. cell phones	on analogue clocks and digital clocks and other digital instruments that show time e.g. cell phones	on analogue clocks and digital clocks and other digital instruments that show time e.g. cell phones	on analogue clocks and digital clock and other digital instruments that she time e.g. cell phones	
		Calculate length of time and passing of time	Calculate length of time and passing of time	Calculate length of time and pass of time	
		Use calendars to calculate and describe lengths of time in days or weeks or months	Use calendars to calculate and describe lengths of time in days or weeks or months including	Use calendars to calculate and describe lengths of time in days or weeks or months including	
		Use clocks to calculate length of time in hours or half hours	 converting between days and weeks 	 converting between days and weeks 	
			 converting between weeks and months 	 converting between weeks and months 	
			Use clocks to calculate length of time in hours, half hours and quarter hours	 Use clocks to calculate length of time in hours, half hours and qua hours 	

MATHEMATICS GRADE 1-3

\bigcirc	
\triangleright	
J	
S	

TOPICS	TERM 1	TERM 2	TERM 3	TERM 4
4.2		Informal measuring	Introducing formal measuring	
Length		 Estimate, measure, compare, order and record length using non-standard measures e.g. hand spans, paces, pencil lengths, counters, etc. 	 Estimate, measure, compare, order and record length using metres (either metre sticks or metre lengths of string) as the standard unit of length 	
		 Describe the length of objects by counting and stating the length in informal units 		
		 Use language to talk about the comparison e.g. longer, shorter, taller, wider 		
		Introducing formal measuring		
		 Estimate, measure, order and record length using metres (either metre sticks or metre lengths of string) as the standard unit of length 	 Estimate, measure and record lengths in centimetres using a ruler 	
		 Estimate and measure lengths in centimetres using a ruler 		
		(No conversions between metres and centimetres required)		

TOPICS	TERM 1	TERM 2	TERM 3	TERM 4
4.3 Mass	TERM 1	 Informal measuring Estimate, measure, compare, order and record mass using a balancing scale and non-standard measures e.g. blocks, bricks, etc. Use language to talk about the comparison e.g. light, heavy, lighter, heavier Introducing formal measuring Compare, order and record the mass of commercially packaged objects which have their mass stated in kilograms e.g. 2 kilograms of rice and 1 kilogram of flour or in grams, e.g. 500 grams of salt Where bathroom scales are available, learners can measure their own mass in kilograms using a bathroom scale. The expectation is that learners only read to the nearest numbered gradation line. They describe their mass as almost/ nearly/close to/a bit more than/more or less/or exactly the number (of kilograms) they read off the scale Where balancing scales with mass pieces calibrated in grams are available, learners can measure mass or different objects (No conversions between grams and kilograms required) 	TERM 3	Introducing formal measuring Learners do written tasks to consolidate the following, including reading pictures of • products with mass written on them • bathroom scales where the needle points to numbered gradation lines

MATHEMATICS GRADE 1-3

0	TOPICS	TERM 1	TERM 2	TERM 3	TERM 4
	4.4	Informal measuring			
Š	Capacity/ Volume	 Estimate, measure, compare and order the capacity of containers (i.e. the amount the container can hold if filled) by using non-standard measures e.g. spoons and cups Describe the capacity of the container by counting and stating 			
		how many of the informal units it takes to fill the container e.g. the bottle has the capacity of four cups			
		Introducing formal measuring			Introducing formal measuring
		Estimate, measure, compare, order and record the capacity of objects			Written tasks to consolidate the following, including reading pictures of
		by measuring in litres, half litres and quarter litres			 products with their capacity written on them in order to sequence in
		 using bottles with a capacity of 1 litre, or containers whose capacity is stated in millilitres e.g. cool drink cans 			 order jugs where the volume is near to a numbered 1 litre or 2 litre gradation line or half litre or quarter litre
		 measuring jugs in which numbered calibration lines show litres, half litres and quarter litres 			 jugs where the volume is near to a numbered millilitres gradation line. The expectation is that learners
		 measuring jugs which have numbered calibration lines for millilitres 			only read to the nearest numbered gradation line. They describe their volume as almost/nearly/ close to/
		 measuring cups and teaspoons which indicate their capacity 			a bit more than/ more or less/ or exactly the number (of litres) they read off the jug
		Compare, order and record the capacity of commercially packaged objects whose capacity is stated in litres e.g. 2 litres of milk, 1 litre of cool drink, 5 litres of paint, or in millilitres e.g. 500 ml of milk, 340 millilitres of cool drink, 750 millilitres of oil			(No conversions between millilitres and litres required)
		Know that a standard cup is 250 millilitres			
		Know that a teaspoon is 5 millilitres			
89		(No conversions between millilitres and litres required)			

TOPICS	TERM 1	TERM 2	TERM 3	TERM 4
4.5			Perimeter	
Perimeter			Investigate the distance around 2-D shapes and 3-D objects using direct comparison or informal units.	
4.6				Area
Area				Investigate the area using tiling.

)	
	C	>	
1	1	٦	
(n n	
(Ţ	J C	

	GRADE 3 OVERVIEW 5. DATA HANDLING						
TOPICS	TERM 1	TERM 2	TERM 3	TERM 4			
5.4	Recommended:		Recommended:				
Collect and	Whole data cycle to make bar graph.		Re-organise data provided in a list or				
organise data	Collect data about the class or school to answer questions posed by the teacher.		tally or table in a bar graph. Represent data on bar graph. Answer questions about data on bar graph				
5.5	Use tallies to record data in categories provided.						
Represent data	Represent data in						
5.6 Analyse	TablesBar graphs	Analyse data from representations provided.		Analyse data from representations provided.			
and Interpret data	Talk about and answer questions about Recommended		RecommendedAt least one pictograph with one-to- one correspondence				
		At least one bar graph		At least one bar graph			