1. NUMBERS, OPERATIONS AND RELATIONSHIPS

Progression in Numbers, Operations and Relationships

- The main progression in Numbers, Operations and Relationships happens in three ways:
 - The number range increases.
 - Different kinds of numbers are introduced.
 - The calculation strategies change.
- As the number range for doing calculations increases up to Grade 3, learners should develop more efficient strategies for calculations.
- Contextual problems should take account of the number range for the grade as well as the calculation competencies of learners. .

TOPICS	GRADE R	GRADE 1	GRADE 2	GRADE 3				
NUMBER CO	NUMBER CONCEPT DEVELOPMENT: Count with whole numbers							
1.1	Count concrete objects	Count concrete objects	Count concrete objects	Count concrete objects				
Count objects	Estimate and count to at least 10 everyday objects reliably.	Estimate and count to at least 50 everyday objects reliably. Counting by grouping is encouraged.	Estimate and count to at least 200 everyday objects reliably. Counting by grouping is encouraged.	Estimate and counts to at least 1000 everyday objects reliably. Counting by grouping is encouraged.				
1.2	Count forwards and backwards in ones	Count forwards and backwards in ones	Count forwards and backwards in:	Counts forwards and backwards in:				
Count forwards	from 1 to 10 Use number rhymes and songs	from any number between 0 and 100. Count forwards in:	 1s from any number between 0 and 200 	 1s from any number between 0 and 1000 				
and backwards		 10s from any multiple of 10 between 0 and 100 	 10s from any multiple of 10 between 0 and 200 	 10s from any multiple of 10 between 0 and 1000 				
		 5s from any multiple of 5 between 0 and 100 	 5s from any multiple of 5 between 0 and 200 	 5s from any multiple of 5 between 0 and 1000 				
		 2s from any multiple of 2 between 0 and 100 	 2s from any multiple of 2 between 0 and 200 	 2s from any multiple of 2 between 0 and 1000 				
			• 3s from any multiple of 3 between 0 and 200	 3s from any multiple of 3 between 0 and 1000 				
			 4s from any multiple of 4 between 0 and 200 	 4s from any multiple of 4 between 0 and 1000 				
				• in 20s, 25s, 50s, 100s to at least 1000				

TOPICS	GRADE R	GRADE 1	GRADE 2	GRADE 3			
NUMBER CO	UMBER CONCEPT DEVELOPMENT: Represent whole numbers						
	Say and use number names in familiar context.						
1.3 Number	Recognise, identify and read number symbols	Recognise, identify and read number symbols	Recognise, identify and read number symbols	Recognise, identify and read number symbols			
symbols and	 Recognise, identify and read number symbols 1 to 10 	 Recognise, identify and read number symbols 1 to 100 	 Recognise, identify and read number symbols 0 to 200 	 Recognise, identify and read number symbols 0 to 1 000 			
number names		Write number symbols 1 to 20	Write number symbols 0 to 200	• Write number symbols 0 to 1 000			
	 Recognise, identify and read number names 1 to 10 	 Recognise, identify and read number names 1 to 10 	 Recognise, identify and read number names 0 to 100 	 Recognise, identify and read number names 0 to 1 000. 			
		• Write number names 1 to 10	• Write number names 0 to 100	• Write number names 0 to 1 000			
NUMBER CO	NCEPT DEVELOPMENT: Describe, comp	pare and order whole numbers	-	-			
1.4 Describe.	Describe, compare and order collection of objects up to 10.	Describe, compare and order objects up to 20					
compare	Describe whole numbers up to 10	Describe and compare collections					
and order numbers	• Compare which of two given collection of objects is big, small, smaller than, greater than, more than, less than, equal to, most, least, fewer up 10.	 of objects according to most, least, the same as Describe and order collections of objects from most to least and least to most 					
	Order more than two given collections of objects from smallest to greatest up to 10						

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TOPICS	GRADE R	GRADE 1	GRADE 2	GRADE 3
NUMBER CO	NCEPT DEVELOPMENT: Describe, com	pare and order whole numbers		
1.4 Describe,		Describe, compare and order numbers to 20	Describe, compare and order numbers to 99	Describe, compare and order numbers to 999
compare and order numbers		 Describe and compare whole numbers according to smaller than, greater than and more than, less than, is equal to 	 Describe and compare whole numbers up to 99 using smaller than, greater than, more than, less than and equal to 	 Describe and compare whole numbers up to 999 using smaller than, greater than, more than, less than and equal to
		 Describe and order numbers from smallest to greatest and greatest to smallest 	 Describe and order whole numbers up to 99 from smallest to greatest, and greatest to smallest 	 Describe and order whole number up to 999 from smallest to greates and greatest to smallest
	Use ordinal numbers to show order, place or position	Use ordinal numbers to show order, place or position	Use ordinal numbers to show order, place or position	Use ordinal numbers to show order place or position
	Develop an awareness of ordinal numbers e.g. first, second, third up to sixth and last	Position objects in a line from first to tenth or first to last e.g. first, second, third tenth	Position objects in a line from first to twentieth or first to last e.g. first, second, third twentieth	Use, read and write ordinal numbers, including abbreviated form (1 st , 2 nd , 3 rd up to 31 st)
NUMBER CO	NCEPT DEVELOPMENT: Place value	-		1
1.5 Place value		Begin to recognise the place value of at least two-digit numbers to 20	Recognise the place value of at least two-digit numbers to 99	Recognise the place value of three- digit numbers to 999
		 Decompose two-digit numbers into multiples of 10 and ones/units 	 Decompose two-digit numbers up to 99 into multiples of 10 and ones/ units 	 Decompose three-digit numbers up to 999 into multiples of 100, multiples of 10 and ones/units
			 Identify and state the value of each digit 	 Identify and state the value of each digit
SOLVE PROB	BLEMS IN CONTEXT			·
1.6 Problem- solving	Use the following techniques up to 10: • concrete apparatus e.g. counters	Use the following techniques when solving problems and explain solutions to problems:	Use the following techniques when solving problems and explain solutions to problems:	Use the following techniques when solving problems and explain solution to problems:
techniques	 physical number ladder 	 concrete apparatus e.g. counters pictures to draw the story sum	drawings or concrete apparatus e.g. counters	 building up and breaking down numbers
		 building up and breaking down numbers 	 building up and breaking down of numbers 	 doubling and halving number lines
		 doubling and halving number lines supported by concrete	 doubling and halving number lines	rounding off in tens
		number lines supported by concrete apparatus		

TOPICS	GRADE R	GRADE 1	GRADE 2	GRADE 3
1.7 Addition and subtraction	Solve word problems (story sums) in context and explain own solution to problems involving addition and subtraction with answers up to 10.	Solve word problems in context and explain own solution to problems involving addition and subtraction with answers up to 20.	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 leading answers up to 999.
1.8 Repeated addition leading to multiplication		Solve word problems in context and explain own solution to problems involving repeated addition with answers up to 20	Solve word problems in context and explain own solution to problems using repeated addition and multiplication with answers up to 50.	Solve word problems in context and explain own solution to problems using multiplication with answers up to 100
1.9 Grouping and sharing leading to division	Solve and explain solutions to word problems in context (story sums) that involve equal sharing, grouping with whole numbers up to 10 and answers that may include remainders.	Solve and explain solutions to practical problems involving equal sharing and grouping with whole numbers up to 20 and with answers that may include remainders.	Solves and explain solutions to practical problems that involve equal sharing and grouping up to 50 with answers that may include remainders.	Solve and explain solutions to practical problems that involve equal sharing and grouping up to 100 with answers that may include remainders
SOLVE PROE	BLEMS IN CONTEXT	·		·
1.10 Sharing leading to fractions			Solve and explain solutions to practical problems that involve equal sharing leading to solutions that include unitary fractions.	Solve and explain solutions to practical problems that involve equal sharing leading to solutions that include unitary and non-unitary fractions.
1.11 Money	Develop an awareness of South African coins and bank notes	 Recognise and identify the South African coins (5c, 10c, 20c, 50c, R1, R2, R5) and bank notes R10 and R20 Solve money problems involving 	 Recognise and identify the South African coins (5c, 10c, 20c, 50c, R1, R2, R5) and bank notes R10, R20, R50 Solve money problems involving 	 Recognise and identify all the South African coins and bank notes Solve money problems involving
		totals and change to R20 and in cents up to 20c	totals and change to R99 and in cents up to 90c	totals and change in rands or centsConvert between rands and cents
CONTEXT-FR				
1.12 Techniques (methods or		Use the following techniques when performing calculations:drawings or concrete apparatus e.g. counters	Use the following techniques when performing calculations:drawings or concrete apparatus e.g. counters	Use the following techniques when performing calculations:
strategies)		 building up and breaking down numbers 	 building up and breaking down numbers 	 building up and breaking down numbers
		 doubling and halving number lines supported by concrete apparatus 	 doubling and halving number lines	 doubling and halving number lines rounding off in tens

TOPICS	GRADE R	GRADE 1	GRADE 2	GRADE 3
1.13 Addition and subtraction	Solve verbally stated addition and subtraction problems with solutions up to 10	 Add to 20 Subtract from 20 Use appropriate symbols (+, -, =, □) Practise number bonds to 10 	 Add to 99 Subtract from 99 Use appropriate symbols (+, -, =, □) Practice number bonds to 20 	 Add to 999 Subtract from 999 Use appropriate symbols (+, -, =, □) Practice number bonds to 30
CONTEXT-FR	EE CALCULATIONS			
1.14 Repeated addition		 Add the same number repeatedly to 20 Use appropriate symbols (+, =, □) 	 Multiply numbers 1 to 10 by 2, 5, 3, and 4 to a total of 50 Use appropriate symbols (+, x, =, □) 	 Multiply any number by 2, 3, 4, 5, 10 to a total of 100 Use appropriate symbols (x, □)
leading to multiplication				
1.15 Division				• Divide numbers up to 100 by 2, 3, 4, 5, 10
Birloion				• Use appropriate symbols (÷, =, □)
1.16	Number concept: Range 10	Number concept: Range 20	Number concept: Range 99	Number concept: Range 1000
Mental mathematics	Each activity commences with mental maths:	 Name the number before and after a given number. 		
	 Counting everyday objects Counting forwards and backwards Ordinal counting Clap hands many/few times Which claps are most/least/more/ fewer Which number comes before/after/ between 	 Order a given set of selected numbers Compare numbers up to and say which is 1 and 2 more or less 	 Order a given set of selected numbers Compare numbers up to 99 and say which is 1, 2, 3, 4, 5 and 10 more or less 	 Order a given set of selected numbers Compare numbers up to 1000 and say which is 1, 2, 3, 4, 5 and 10 more or less

MATHEMATICS GRADE 1-3

\mathbf{O}	TOPICS	GRADE R	GRADE 1	GRADE 2	GRADE 3
	CONTEXT-FREE	CALCULATIONS (cont.)			
Š	1.16		Rapidly recall:	Rapidly recall:	Rapidly recall:
	Mental mathematics		Addition and subtraction facts to 10	Addition and subtraction facts to 20	Recall 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
					Multiplication facts for the:
					 2 times table with answers up to 20
					 10 times table with answers up to 100
					Division facts for numbers:
					- up to 20 divisible by 2
					- up to 100 divisible by 10
			Calculation strategies		Calculation strategies
			Use calculation strategies to add and subtract efficiently:	Calculation strategies Use calculation strategies to add and	Use the following calculation strategies:
			Put the larger number first in order to count on or count back	subtract efficiently:Put the larger number first in order	 Put the larger number first in order to count on or count back
			Number line	to count on or count back	Number line
			Doubling and halving	Number line Devibling and behains	Doubling and halving
			Building up and breaking down	 Doubling and halving 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 multiplication and division.
	1.17 Fractions			 Use and name unitary fractions including halves, quarters, thirds and 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
23					 Begin to recognise that two halves or three thirds make one whole and that one half and two quarters are equivalent
				Write fractions as 1 half	• Write fractions as 1 half and 2 thirds.

MATHEMATICS GRADE 1-3

2. PATTERNS, FUNCTIONS AND ALGEBRA

Progression in Patterns, Functions and Algebra

- In Patterns, Functions and Algebra, learners get opportunities to:
 - complete and extend patterns represented in different forms ; and
 - identify and describe patterns.
- Describing patterns lays the basis for learners in the Intermediate Phase to describe rules for patterns. This in turn becomes more formalised in algebraic work in the Senior Phase.

TOPICS	GRADE R	GRADE 1	GRADE 2	GRADE 3
2.1	Copy and extend	Copy, extend and describe	Copy, extend and describe	Copy, extend and describe
	Copy and extend simple patterns using	Copy, extend and describe in words	Copy, extend and describe in words	Copy, extend and describe in words
patterns	physical objects and drawings (e.g. using colours and shapes).	 simple patterns made with physical objects 	 simple patterns made with physical objects 	 simple patterns made with physical objects
		 simple patterns made with drawings of lines, shapes or objects 	 complex patterns made with drawings of lines, shapes or objects 	 more complex patterns made with drawings of lines, shapes or objects
		Create own patterns	Create and describe own patterns	Create and describe own 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		
		Patterns around us	Patterns around us	Patterns around us
		Identify, describe in words and copy geometric patterns	Identify, describe in words and copy geometric patterns	Identify, describe in words and copy geometric patterns
		in nature	in nature	in nature
		from modern everyday life	from modern everyday life	from modern everyday life
		from our cultural heritage	from our cultural heritage	from our cultural heritage
2.2		Copy, extend and describe	Copy, extend and describe	Copy, extend and describe
Number patterns		Copy, extend and describe simple number sequences to at least	Copy, extend and describe simple number sequences to at least	Copy, extend and describe simple number sequences to at least
		Create and describe own patterns	Create and describe own patterns	Create and describe own patterns



3. SPACE AND SHAPE (GEOMETRY)

Progression in Space and Shape

The main progression in Space and Shape is achieved by:

- focussing on new properties and features of shapes and objects in each grade; and
- moving from learning the language of position and matching different views of the same objects to reading and following directions on informal maps.

TOPICS	GRADE R	GRADE 1	GRADE 2	GRADE 3
3.1	Language of position	Language of position	Language of position	
Position, orientation and views	Describe the position of one object in relation to another e.g. on top of, in front of, behind, left, right, up, down, next to.	Describe the position of one object in relation to another e.g. on top of, in front of, behind, left, right, up, down, next to.	Describe the position of one object in relation to another e.g. on top of, in front of, behind, left, right, up, down, next to.	
		Position and views	Position and views	Position and views
		 Recognise and match different views of the same everyday object 	 Recognise and match different views of the same everyday object. 	 Recognise and 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	Position and directions	Position and directions
	Follow directions to move around the classroom	 Follow directions to move around the classroom 	Follow directions to move around the classroom	 Follow directions to move around the classroom and school
		Follow instructions to place one object in relation to another, e.g. put		Give directions to move around the classroom and school
		the pencil behind the box		 Follow directions from one place to another on an informal map

TOPIC	GRADE R	GRADE 1	GRADE 2	GRADE 3
3.2	Range of objects	Range of objects	Range of objects	Range of objects
3-D obje	Recognise and name 3-D objects in the classroom	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,	 ball shapes (spheres) 	ball shapes (spheres)	ball shapes (spheres)
	box shapes	 box shapes (prisms) 	 box shapes (prisms) 	 box shapes (prisms)
			cylinders	cylinders
				• pyramids
				• cones
	Features of objects	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:	Describe, sort and compare 3-D objects in terms of:
	• size	• size	• size	• 2-D shapes that make up the faces
	• colour	• colour	objects that roll	of 3-D objects
	objects that roll	objects that roll	objects that slide	flat or curved surfaces
	objects that slide	objects that slide		
	Focussed activities	Focussed activities	Focussed activities	Focussed activities
	 Use 3-D objects such as building blocks, recycling material etc, to construct composite objects e.g. towers, bridges etc 	 Observe and build given 3-D objects using concrete materials such as building blocks, recycling material, construction kits 	Observe and build given 3-D objects using concrete materials such as cut-out 2-D shapes, building blocks, recycling material, construction kits, 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

MATHEMATICS GRADE 1-3

TOPICS	GRADE R	GRADE 1	GRADE 2	GRADE 3
3.3	Recognise, identifies and names	Range of shapes	Range of shapes	Range of shapes
2-D shapes	two-dimensional shapes in the classroom and in pictures,	Recognise and name 2-D shapes	Recognise and name 2-D shapes	Recognise and name 2-D shapes
	including:	• circles	• circles	• circles
	Learners Symbols	• triangles	• triangles	• triangles
	Class name	• squares	• squares	• squares
			• rectangles	• rectangles
		Features of shapes	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:	Describe, sort and compare 2-D shapes in terms of:
		• size	• size	• shape
		• colour	• shape	straight sides
		straight sides	straight sides	round sides
		round sides	round sides	
				Draw shapes
				• circles
				triangles
				squares
				rectangles
3.4	Symmetry	Symmetry	Symmetry	Symmetry
Symmetry	Recognise symmetry in own body	 Recognise symmetry in own body. Recognise and draw line of symmetry in 2-D geometrical and non-geometrical shapes 	 Recognise and draw line of symmetry in 2-D geometrical and non-geometrical shapes 	 Recognise and draw line of symmetry in 2-D geometrical and non-geometrical shapes. Determine line of symmetry through paper folding and reflection

4. MEASUREMENT

Progression in Measurement

- The main progression in measurement across the grades is achieved by the introduction of:
 - new forms of measuring;
 - new measuring tools, starting with informal tools and moving to formal measuring instruments in Grades 2 and 3;
 - new measuring units, particularly in Grades 2 and 3.
- Calculations and problem-solving with measurement should take cognisance of the number work that has already been covered.

TOPICS	GRADE R	GRADE 1	GRADE 2	GRADE 3
4.1	Passing of time	Passing of time		
Time	Talk about the passing of time	Talk about the passing of time		
	 Talk about things that happen during the day and things that happen during the night Learners sequence events that happen to them during the day Order regular events from their own lives 	 Order regular events from their own lives Compare lengths of time using language e.g. longer, shorter, faster, slower Sequence events using language such as yesterday, today, tomorrow 		

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TOPICS	GRADE R	GRADE 1	GRADE 2	GRADE 3
4.1		Telling the time	Telling the time	Telling the time
Time		 Describe when something happens using language e.g. morning, afternoon, night, early, late 		
		 Name and sequence days of week and months of year 	Name and sequence days of week and months of year	Read dates on calendars
		Place birthdays 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
			• Tell 12-hour time in hours, half	Tell 12-hour time in
			hours and quarter hours	- hours
				- half hours
				- quarter hours
				- minutes
				on analogue clocks and digital clocks and other digital instruments that show time e.g. cell phones
			Calculate length of time and passing of time	Calculate length of time and passing of time
			Use calendars to calculate and describe lengths of time in:	 Use calendars to calculate and describe lengths of time in:
			- days,	- days
			- weeks	- weeks
				- months
				 Converting between days and weeks
				 Converting between weeks and months
			Use clocks to calculate length of time in:	Use clocks to calculate length of time in:
			- hours	- hours
			- half hours	- half hours
				- quarter hours

TOPICS	GRADE R	GRADE 1	GRADE 2	GRADE 3
4.2	Informal measuring	Informal measuring	Informal measuring	Informal measuring
Length	Compare and order the length, height or width of two or more objects by placing them next to each other. Use language to talk about the comparison e.g. longer, shorter, taller, wider	 Compare and order the length, height or width of two or more objects by placing them next to each other. Use language to talk about the comparison e.g. longer, shorter, taller, wider 		
		 Estimate, measure, compare, order and record length using non-standard measures e.g. hand spans, paces, pencil lengths, counters 	 Estimate, measure, compare, order and record length using non-standard measures e.g. hand spans, paces, pencil lengths, counters 	 Estimate, measure, compare, order and record length using non-standard measures e.g. hand spans, paces, pencil lengths, counters
		 Describe the length of objects by counting and stating the length in informal units 	 Describe the length of objects by counting and stating the length in informal units 	 Describe the length of objects by counting and stating how many informal units long they are.
			Introducing formal measuring	Introducing formal measuring
			Estimate, measure, compare order and record length using metres (either metre sticks or metre lengths of string) as the standard unit of length.	 Estimate, measure, compare, order and record length using metres (either metre sticks or metre lengths of string) as the standard unit of length
				Estimate and measure lengths in centimetres using a ruler
				(No conversions between metres and centimetres required)

0	TOPICS	GRADE R	GRADE 1	GRADE 2	GRADE 3
	4.3	Informal measuring	Informal measuring	Informal measuring	Informal measuring
CAPS	Mass	Compare and order the mass of two or more objects by feeling them or using a balancing scale	 Estimate, measure, compare, order and record mass using a balancing scale and non-standard measures e.g. blocks, bricks 	 Estimate, measure, compare, order and record mass using a balancing scale and non-standard measures e.g. blocks, bricks. 	 Estimate, measure, compare, order and record mass using a balancing scale and non-standard measures e.g. blocks, bricks
			 Describe the mass of objects by counting and stating the mass in informal units 	 Describe the mass of objects by counting and stating the mass in informal units 	 Describe the mass of objects by counting and stating the mass in informal units
		 Use language to talk about comparison e.g. light, heavy, lighter, heavier 	 Use language to talk about the comparison e.g. light, heavy, lighter, heavier 	 Use language to talk about comparison e.g. light, heavy, lighter, heavier 	 Use language to talk about comparison e.g. light, heavy, lighter, heavier
				Introducing formal measuring	Introducing formal measuring
				 Compare, order and record the mass of commercially packaged objects which have their mass stated only in kilograms e.g. 2 kilograms of rice and 1 kilogram of 	Compare, order and record the mass of commercially packaged objects which have their mass stated in:
				flour	 kilograms e.g. 2 kilograms of rice and 1 kilogram of flour
					- grams e.g. 500 grams of salt
				 Measure own mass in kilograms using a bathroom scale 	 Measure own mass in kilograms using a bathroom scale
					(No conversions between grams and kilograms are required)

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4	TOPICS	GRADE R	GRADE 1	GRADE 2	GRADE 3
	4.4	Informal measuring	Informal measuring	Informal measuring	Informal measuring
	Capacity/ Volume	Compare and order the amount of liquid (volume) in two containers placed next to each other. Learners check by pouring into a third container if necessary	 Compare and order the amount of liquid (volume) in two containers placed next to each other. Learners check by pouring into a third container if necessary 		
		 Compare and order the amount of liquid that two containers can hold if filled (capacity) 	 Compare and order the amount of liquid that two containers can hold if filled (capacity). 		
		 Use language to talk about comparison e.g. more than, less than, full, empty 	 Use language to talk about comparison e.g. more than, less than, full, empty 		
			 Estimate, measure, compare, order and record the capacity of containers by using non-standard measures e.g. spoons and cups 	 Estimate, measure, compare, order and record the capacity of containers (i.e. the amount the container can hold if filled) by using non-standard measures e.g. spoons and cups 	 Estimate, measure, compare, order and record the capacity of containers (i.e. the amount the container can hold if filled) by using non-standard measures e.g. spoons and cups

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TOPICS	GRADE R	GRADE 1	GRADE 2	GRADE 3
4.4 Capacity/ Volume		 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 	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	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 by measuring in litres 	 Estimate, measure, compare, order and record the capacity of objects by measuring in litres, half litres and quarter litres
			 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 	 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 stated in millilitres e.g. 500 millilitres of milk, 340 millilitres of cool drink, 750 millilitres of oil.
				Know that a standard cup is 250 millilitres
				 Know that a standard teaspoon is 5 millilitres
				(No conversions between millilitres and litres required)
4.5				Perimeter
Perimeter and Area				Investigate the distance around 2-D shapes and 3-D objects using direct comparison or informal units.
				Area
				Investigate the area using tiling.

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5. DATA HANDLING

Progression in Data Handling

- The main progression in Data Handling across the grades is achieved by:
 - moving from working with objects to working with data; and
 - working with new forms of data representation.
- Learners should work through the full data cycle at least once a year this involves collecting and organising data, representing data, analysing, interpreting and reporting data.
- Some of the above aspects of data handling can also be dealt with as discrete activities.

TOPICS	GRADE R	GRADE 1	GRADE 2	GRADE 3
5.1 Collect and sort objects	Collect and organise objects Collect and sort everyday physical objects.	Collect and organise objects Collect and sort everyday physical objects.		
5.2 Represent sorted collection of objects	Represent sorted collection of objects Draw a picture of collected objects.	Represent sorted collection of objects Draw a picture of collected objects.		
5.3 Discuss and report on sorted collection of objects	 Discuss and report on sorted collection of objects Answer questions about how the collection was sorted the drawing of the collection 	 Discuss and report on sorted collection of objects Give reasons for how collection was sorted; Answer questions about how the sorting was done (process) what the sorted collection looks like (product) Describe the collection and/drawing Explain how the collection was sorted 		

CAPS

TOPICS	GRADE R	GRADE 1	GRADE 2	GRADE 3
5.4		Collect and organise data	Collect and organise data	Collect and organise data
Collect and organise data		 Collect data about the class or school to answer questions posed by the teacher 	 Collect data about the class or school to answer questions posed by the teacher 	 Collect data about the class or school to answer questions posed by the teacher
				Organise data supplied by teacher or workbook/textbook
				Organise data in
				- lists
				- tally marks
				- tables
5.5		Represent data	Represent data	Represent data
Represent		Represent data in pictograph	Represent data in pictograph	Represent data in
data		Limited to pictographs with one-to-one correspondence	Limited to pictographs with one-to-one correspondence	 pictograph (limited to pictographs with one-to-one correspondence)
				- bar graphs
5.6		Analyse and interpret data	Analyse and interpret data	Analyse and interpret data
Analyse and		Answer questions about data in pictograph	Answer questions about data in pictograph	Answer questions about data presented in
Interpret data		 limited to pictographs with one-to-one correspondence 	 limited to pictographs with one-to-one correspondence 	 pictographs(limited to pictographs with one-to-one correspondence)
				bar graphs