Curriculum design

Mathematics grade three

Strand	Sub-strand	Specific Learning	Suggested Learning Experiences	Key Inquiry	
		Outcomes		Question(s)	
1.0 Numbers	1.1 Number Concept (8 lessons)	By the end of the substrand, the learner should be able to: • Use ordinal numbers to identify position from 1-20.	 Learners in pairs/groups to arrange different items in order of size starting with the smallest. Learners to identify the position of an object from a reference point using first, second up to 20th. Learners in groups to run for a distance and each to identify their position using the words first, second up to 20th position. Learners in pairs/groups to relate numbers 1 –20 to positions first, second up to 20th using concrete objects. Learners to play digital games involving position 1st -20th. 	In which position were you when you came to class in the morning?	
_		=	l collaboration, learning to learn, imagination and creativity, crit	ical thinking	
		efficacy, digital literacy.	I ! I- 4- W-I		
Link to PC Life Skills:		es- as they use their body parts.	Link to Values:		
Link to oth	er learning ar	eas:	Suggested Community Service Learning Activ	ities:	
Language activities			Learners may assist in giving patients card facilities according to their arrival time.		
Suggested	non-formal ac	tivity to support learning:	Suggested assessment:		
• Learners to take turns in playing games.			 Written exercises, oral questions, observat 	Written exercises, oral questions, observation.	

Exceeds expectations	Meets expectations	Approaches expectations	Below expectations
Correctly uses ordinal numbers	Correctly uses ordinal numbers	Inconsistently uses ordinal	Major inaccuracies in using
in identifying positions from 1st-	in identifying positions from 1st-	numbers in identifying positions	ordinal numbers in
20thand beyond with ease.	20th.	from 1st-20th.	identifying positions from 1st-

Strand	Sub-strand	Specific Learning Outcomes	Suggested Learning Experiences	Key Inquiry Question(s)
1.0 Numbers	1.2 Whole Numbers (20 lessons)	strand, the learner should be able to: a. Count numbers forward and backward from 1- 1000, b. Identify place value up to thousands, c. Read numbers 1-1000 in symbols, d. Read and write numbers 1-100 in words, e. Identify missing numbers in number patterns up to 1000, f. Appreciate number patterns as they skip on a number line.	 Learners in pairs/groups to count in 2's and 5's forward and backward starting from any point. Learners in pairs/groups to count their fingers and toes in 2's and 10's forward and backward starting from any point. Learners in pairs / groups to discuss place value up to thousands. Learners in pairs / groups to compete reading numbers 1-1000 in symbols. Learners to read and write numbers 1-100 in words. Learners to play digital games involving whole numbers. Learners in pairs/groups to make number patterns up to 1000 and share with other groups. 	How would you get the total number of people in a group?

Core-Competence to be developed: communication and collaboration, critically thinking and problem solving, imagination and					
creativity, digital literacy.					
Link to PCI's:	Link to Values:				
• Life skills: self- awareness -as learners count their fingers and	Integrity				
toes.	• cooperation				
• Citizenship: social cohesion -as learners work in groups.	• unity				
	 responsibility 				
Link to other learning areas:	Suggested Community Service Learning Activities:				
 Environmental activities 	 Learners may assist in counting the number of chairs in 				
Language activities	a community function.				
Suggested non-formal activity to support learning:	Suggested assessment:				
 Learners to count trees in the school compound. 	Written exercise, oral questions, observation.				

Exceeds expectations	Meets expectations	Approaches expectations	Below expectations
Correctly: counts numbers from 1	Correctly: counts numbers from 1	Inconsistently: counts numbers	Major inaccuracies in: counting
-1000, reads and writes numbers	- 1000, reads and writes	from 1 -1000, reads and writes	numbers from 1 - 1000,
1-100 in words, reads and writes	numbers 1-100 in words, reads	numbers 1-100 in words, reads	reading and writing numbers 1-
number symbols from 1 - 1000,	and writes number symbols from	and writes number symbols from	100 in words, reading and
identifies place value up to	1 - 1000, identifies place value	1 -1000, identifies place value up	writing number symbols from
thousands, works out missing	up to thousands, works out	to thousands, works out missing	1- 1000, identifying place
numbers in patterns up to 1000	missing numbers in patterns up	numbers in patterns up to 1000.	value up to thousands, working
with ease.	to 1000.		out missing numbers in

Strand Sub-s	nd Specific Learning Outcomes	Suggested Learning Experiences	Key Inquiry Question(s)
1.0 Numbers 1.1 Fracti	a. Identify 12, 14 and 18 as part	Learners in pairs /groups to make circular cut-outs. Learners in pairs /groups to fold circular cut-outs into 2 equal parts and identify one part as of the whole. Learners in pairs /groups to make rectangular cut-outs and fold them into 4 equal parts to get a quarter of a whole and identify each part as of the whole. Learners and paire to geps to make rectangular identify one part as of the whole. bejutes and paire to geps to make rectangular identify one part as of the whole. bejutes and paire arguments a distribute at my when of of the small groups as of the whole group. bejutes and groups as of the whole group. Learners to play digital games involving	How can you represent a half, a quarter or an eighth of a group

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Core-Competence to be developed: imagination and creativity, communication and collaboration, critical thinking and problem					
solving, digital literacy.					
Link to PCI's:	Link to Values:				
• Life skills: interpersonal relationships- friendship formation	integrity				
and decision making.	• unity				
• Citizenship: integrity-sharing, social cohesion -as they work	 responsibility 				
in groups.					
• ESD: environmental awareness- as learners collect objects					
like sticks.					
Link to other learning areas:	Suggested Community Service Learning Activities:				
 Hygiene and Nutrition activities 	 Learners can share responsibilities during community 				
 Environmental activities 	activities.				
 Language activities 					
Suggested non-formal Activity to support learning:	Suggested assessment:				
 Learners to share library books during free time. 	 Written exercise, observation, oral questions. 				

<u> </u>	Meets Expectations	Approaches Expectations	Below Expectations
• Correctly identifies , and more as part of a whole and as part of a group.	and as part of a whole and as part of a group.	part of a and as part of whole and as a group.	as part of a whole and as part of a group.

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Strand	Sub-Strand	Specific Learning Outcomes	Suggested Learning Experiences	Key Inquiry Question(s)
1.0 Numbers	1.2 Addition (25 lessons)	By the end of the sub-strand, the learner should be able to: a. Add a 3- digit number to up to a 2-digit number without regrouping with sum not exceeding 1000, b. Add a 3- digit number to up to a 2-digit number with single regrouping with sum not exceeding 1000, c. Add three single digit numbers with sum up to 27, d. Add two 3- digit numbers without regrouping, e. Add two 3- digit numbers with single regrouping with sum not exceeding 1000, f. Work out missing numbers in patterns involving addition up to 1000, g. Create number patterns involving addition up to 1000.	 Learners to add up to two 3- digit numbers without and with regrouping with sum not exceeding 1000. Learners to practice adding horizontally and vertically. Learners in pairs to come up with different ways of adding 3- single digit numbers. Learners to play digital games involving addition. Learners to create and work out missing numbers in patterns involving addition up to 1000. 	 How do you arrange numbers when adding vertically How do you identify the first two numbers to add when adding three single digit numbers? How can you get the next number in a given pattern?
and creativ	J		Link to Values:	
 Link to PCI's: ESD: DRR; safety-environmental awareness. Life skills: self- awareness-as they use body parts in counting. 			 integrity responsibility 	
Link to other learning areas:			 Suggested Community Service Learning Ac Learners may assist in working out the different trees in their locality in order should be planted. 	total number of

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Exceeds Expectations	Meets Expectations	Approaching Expectations	Below Expectations
• Correctly: adds a 3- digit number to up to 3- digit numbers with double regrouping with sum not exceeding 1000, works out missing numbers in number patterns up to 1000, creates patterns involving addition up to 1000.	Correctly: adds a 3- digit number to up to 3- digit numbers with single regrouping with sum not exceeding 1000 works out missing numbers in number patterns up to 1000, creates patterns involving addition up to 1000.	• Inconsistently: adds a 3-digit number to up to 3-digit numbers with single regrouping with sum not exceeding 1000, works out missing numbers in number patterns up to 1000, creates patterns involving addition up to 1000.	Major inaccuracies in: adding a 3- digit number to up to 3- digit numbers with single regrouping with sum not exceeding 1000, working out missing numbers in number patterns up to 1000, creating patterns involving addition up to

Strand	Sub-Strand	Specific Learning Outcomes	Suggested Learning Experiences	Key Inquiry Question(s)
1.0 Numbers	1.5 Subtraction (20 lessons)	By the end of the sub-strand, the learner should be able to: a. Subtract up to 3- digit number without regrouping, b. Subtract up to 3- digit number involving missing numbers wisingle regrouping, c. Work out missing numbers in number patterns involving subtraction up to 1000.	 Learners to work out subtraction of up to 3-digit numbers without regrouping in real life situations. Learners to work out missing 	1) When do you regroup during subtraction? 2) How do you identify the missing number in a number pattern
Link to PCI	's:	oped: communication and collaborates as learners work out subtraction.	tion, critical thinking and problem solving, digital lit Link to Values: respect responsibility integrity	eracy.
 Link to other learning areas: Language activities Hygiene and Nutrition activities Environmental activities 			• Learners to participate in community environ	
Suggested non- formal activity to support learning:			Suggested assessment:	
 Learn 	ers to clean up the	r school.	 Oral questions, written exercise, observation 	l.

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Exceeds Expectations	Meets Expectations	Approaching Expectations	Below Expectations
• Correctly: subtracts up to 3- digit numbers without regrouping, subtracts up to 3- digit numbers involving missing numbers with single regrouping, works out missing numbers in patterns up to 1000 with ease.	Correctly: subtracts up to 3- digit numbers without regrouping, subtracts up to 3- digit numbers involving missing numbers with single regrouping, works out missing numbers in patterns up to 1000.	• Inconsistently: subtracts up to 3- digit numbers without regrouping, subtracts up to 3- digit numbers involving missing numbers with single regrouping, works out missing numbers in patterns up to 1000.	Major inaccuracies in: subtracting up to 3- digit numbers without regrouping, subtracting up to 3- digit numbers involving missing numbers with single regrouping, working out missing numbers in patterns up to 1000.

Strand	Sub-Strand	Specific Learning Outcomes	Suggested Learning Experiences	Key Inquiry Question(s)
1.0 Numbers	1.6 Multiplication (10 lessons)	By the end of the sub-strand, the learner should be able to: • Multiply single digit numbers by numbers 1-10 in different contexts.	 Learners in pairs/groups to multiply single digit numbers by numbers1-10 using: -groups of objects -repeated addition -multiplication table. Learners to play digital games involving multiplication. 	1) How can you work out multiplication using repeated addition? 2) How can we get the answer to a multiplication question using the multiplication table?

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Core competences to be developed: communication and collaboration, is	magination and creativity ,self-efficacy, digital literacy.
Link to PCI's:	Link to values
 Life skills: self –awareness -learners use body parts in grouping objects. ESD: DRR; Environmental conservation-learners re-use materials and objects; animal welfare-feeding animals in small portions at a time. 	integrityunitycooperation
Link to other learning areas: Language activities Environmental activities Movement and creative activities 	Suggested Community Service Learning Activities: Learners to assist farmers in finding out how many seedlings planted in rows are in a seed bed.
Suggested non-formal activities to support learning: • Learners to play games involving multiplication in school.	Suggested assessment: • Written exercise, observation, oral questions.

Exceeds Expectations	Meets Expectations	Approaches Expectations	Below Expectations
 Correctly multiplies 	 Correctly multiplies 	 Inconsistently multiplies 	 Major inaccuracies in
single digit numbers by	single digit numbers by	single digit numbers by	multiplying single digit
numbers 1-10 and	numbers 1-10.	numbers 1-10.	numbers by numbers 1-
beyond.			10.

Strand	Sub-Strand	Specific Learning Outcomes	Suggested Learning Experiences	Key Inquiry Question(s)
1.0 Numbers	1.7 Division (8 lessons)	By the end of the sub-strand, the learner should be able to: a) Represent division as repeated subtraction up to 5 times, b) Show relationship between multiplication and division using mathematical sentences up to 9×10 = 90.	 Learners to take away from a group a specific number of objects at a time until all are finished and then count the number of small groups formed. Learners to represent division as repeated subtraction up to 5 times. Learners to discuss the relationship between division and multiplication using the multiplication table. Learners in pairs/ groups to practice how to divide numbers related to multiplication of up to 9 × 10 = 90. Learners to play digital games 	1) How can we divide numbers using subtraction? 2) How can we use the multiplication table to work out division questions?
Link to PC	I's:	eveloped: communication and collaborating animals by giving small portions at	ion, critical thinking and problem solving, digital Link to Values: • respect	literacy.
a time.	ir wertare reedir	ig animals by giving small portions at	respectresponsibilitylove	
Link to other learning areas: Language activities Hygiene and Nutrition activities Environmental activities 		on activities	• Learners to assist in sharing food in fo	
		ivity to support learning: owers and trees in the school compound.	Suggested assessment: oral questions, written	n exercise, observation.

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Exceeds Expectations	Meets Expectations	Approaches Expectations	Below Expectations
• Correctly represents division as repeated subtraction up to more than 5 times and relates division to multiplication up to 9 x10 = 90.	• Correctly represents division as repeated subtraction up to 5 times and relates division to multiplication up to $9x10=90$.	• Inconsistently: represents division as repeated subtraction up to 5 times, relates division to multiplication up to 9 x10 = 90.	Major inaccuracies in: representing division as repeated subtraction up to 5 times and in relating division to multiplication up to 9 x10 = 90.

Strand	Sub-Strand	Specific Learning Outcomes	Suggested Learning Experiences	Key Inquiry Question(s)
2.0 Measurement	2.1 Length (6 lessons)	By the end of the sub-strand, the learner should be able to: a) Measure length in metres, b) Add and subtract length in metres, c) Estimate length up to 20 metres.	 Learners in pairs/groups to use metre sticks to measure various distances and record their results. Learners to prepare 5 metres long strings with knots at intervals of one metre to measure long distances. Learners in groups to measure the lengths of the 4 walls in their classroom and add the lengths. Learners to measure the length of the chalkboard and the wall it is fixed and work out the difference in length. Learners to work out questions involving addition and subtraction of length in metres based on real life situations. Learners in pairs/groups to estimate distances around the school up to 20 metres and measure to confirm. Learners to take videos of others measuring length then playback and discuss. 	1) How do you measure the chalkboard using a metre stick? 2) How do you get the total length in metres of the 4 classroom walls? 3) How do you measure the distance between the flag post and the staffroom using a 5 metres long string?

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Core Competencies to be developed: communication and collaboration, imagination and creativity, critical thinking and					
 problem solving, self-efficacy, digital literacy. Link to PCI's: ESD:DRR; Environmental awareness-re-use of materials, safety- of materials learners use. 	Link to values: Integrity Unity Responsibility 				
Link to other learning areas: • Environmental activities • Language activities	Suggested Community Service Learning Activities: • Learners to assist their neighbours in measuring length when building chicken and rabbit cages among others.				
Suggested non-formal activity to support learning: • Learners to measure lengths of buildings in school.	Suggested assessment: • Oral questions, observation' written exercise.				

Exceeds Expectations	Meets Expectations	Approaches Expectations	Below Expectations
• Correctly: measures length in metres, adds length in metres, subtracts length in metres and estimates length up to 20 metres and beyond.	Correctly measures length in metres, adds length in metres, subtracts length in metres and estimates length up to 20 metres.	length in metres, adds	Major inaccuracies in: measuring length in metres, adding length in metres, subtracting length in metres and estimating length up to 20 metres.

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Strand	Sub-Strand	Specific Learning Outcomes	Suggested Learning Experiences	Key Inquiry Question(s)
2.0 Measurement	2.2 Mass (6 lessons)	By the end of the sub-strand, the learner should be able to: a. Measure mass in kilograms, b. Add and subtract mass in kilograms, c. Estimate mass up to 5 kilograms.	 Learners to measure mass in kilograms using a beam balance. Learners to make masses of 1kg using sand/soil by measuring against the kilogram standard unit. Learners to add and subtract mass in kilograms in real life situations. Learners to use a 5kg mass to compare other masses. Learners to estimate mass up to 5kg and measure to confirm. Learners to play digital games involving mass. 	How can you make a 1kg mass using a beam balance?
efficacy, digital		pped: communication and collaborati	on, imagination and creativity, critical thinking and prob	lem solving, self-
Link to PCI's:			Link to Values:	
	_	sion- as learners work in groups. lecting appropriate materials.	integrityunityhonesty	
Link to other le	earning areas:		Suggested Community Service Learning Activities	:
 Environmental activities Language activities Movement and creative activities 		ctivities	Learners to assist neighbours in arranging light	
	•	to support learning:	Suggested assessment:	
• Learners to measure mass of different items in kilograms.		s of different items in kilograms.	Written exercise, oral questions, observation	

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Exceeds Expectations	Meets Expectations	Approaching Expectations	Below Expectations
Correctly: measures mass in kilograms adds and subtracts mass in kilograms and estimates mass up to 5kg and beyond.	Correctly: measures mass in kilograms adds and subtracts mass in kilograms and estimates mass up to 5kg.	• Inconsistently: measures mass in kilograms adds and subtracts mass in kilograms and estimates mass up to 5kg.	Major inaccuracies in: measuring mass in kilograms, adding and subtracting mass in kilograms and estimating mass up to 5kg

Strand	Sub-Strand	Specific Learning Outcomes	Suggested Learning Experiences	Key Inquiry Question(s)			
2.0	2.3 Capacity	By the end of the sub-strand,		What can we use			
Measurement	(8 lessons)	 the learner should be able to: a. Measure capacity in litres, b. Add and subtract capacity in litres, c. Estimate capacity up to 5 litres. 	 Learners in pairs/groups measure capacity of different containers in litres. Learners to add and subtract capacity in litres in real life situations. Learners to estimate capacity up to 5 litres and measure to confirm. Learners play digital games involving capacity. 	to measure capacity?			
Core Competences to be developed: communication and collaboration, critical thinking and problem solving, digital literacy, imagination and creativity, citizenship.							
	Link to PCI's: Link to Values:						
ESD: animal w	elfare – feed anim	als with water	• respect				
	 responsibility 						
	• integrity						

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Link to other learning areas: Language activities Nutrition and hygiene activities Environmental activities Movement and creative activities 	Suggested Community Service Learning Activities: • Learners to take part in watering flowers and trees around places of worship, health centres and at home.
Suggested non- formal activity to support learning:	Suggested assessment:
• Learners to water flowers and trees in the school compound.	Oral questions, observation, written exercise

Exceeds Expectations	Meets Expectations	Approaches Expectations	Below Expectations
Correctly: measures capacity in litres, adds and subtracts capacity in litres in real life experiences and estimates capacity up to 5 litres and beyond.	Correctly: measures capacity in litres, adds and subtracts capacity in litres in real life experiences and estimates capacity up to 5 litres	• Inconsistently: measures capacity in litres, adds and subtracts capacity in litres in real life experiences and estimates capacity up to 5 litres	Major inaccuracies in: measuring capacity in litres, adding and subtracting capacity in litres in real life experiences and estimating capacity up to 5 litres

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Strand	Sub-Strand	Specific Learning Outcomes	Suggested Learning Experiences	Key Inquiry Question(s)
Link to PCI's: • Health e	ducation: HIV a	By the end of the sub-strand, the learner should be able to: a. Identify the minute as a unit of measuring time, b. Read and tell time using the digital clock, c. Read and tell time using 'past' and 'to' the hour using the clock face, d. Write time using 'past' and 'to' the hour, e. Estimate time in hours, f. Add and subtract time involving hours and minutes without conversion in real life ped: communication and collaboration, crit	 Learners to discuss the divisions on a clock face and what each division represents. Learners to read time on a digital clock Learners in pairs/groups to discuss the relationship between hours and minutes using a clock face. Learners in pairs/groups to read, tell and write time using 'past' and 'to' the hour. Learners in pairs/groups to estimate time in hours. Learners in pairs/groups to add and subtract time involving hours and minutes without conversion in real life situations. Link to Values: respect responsibility integrity 	How do we convert hours to minutes
Link to other learning areas: Language activities Nutrition and Hygiene activities Environmental activities 		tivities	 social justice Suggested Community Service Learning Activities: Learners to assist in being time keepers in community 	ity activities.
Suggested non- formal activity to support learning: • Learners to assist in time keeping during games.		11	Suggested assessment: • Oral questions, observation, written exercise.	

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Exceeds Expectations	Meets Expectations	Approaches Expectations	Below Expectations
Correctly: reads, tells, writes	Correctly: reads, tells, writes	Inconsistently: reads, tells, writes	Major inaccuracies in: reading,
time using 'past' and 'to' the	time using 'past' and 'to' the	time using 'past' and 'to' the	telling, writing time using 'past'
hour, estimates time in hours and	hour, estimates time in hours,	hour, estimates time in hours,	and 'to' the hour, estimating time
minutes, adds and subtracts time	adds and subtracts time involving	adds and subtracts time involving	in hours, adding and subtracting
involving hours and minutes	hours and minutes without	hours and minutes without	time involving hours and minutes
without conversion in real life	conversion in real life situations.	conversion in real life situations.	without conversion in real life
situations with ease.			situations

Strand	Sub-Strand	Specific Learning Outcomes	Suggested Learning Experiences	Key Inquiry
				Question(s)
2.0	2.5 Money	By the end of the sub-strand, the		What is the difference
Measurement	(10 lessons)	learner should be able to:	 Learners in pairs/groups to sort out 	between needs and
		a. Identify Kenyan currency notes up	Kenyan currency notes according to	wants?
		to sh.1000,	their value and features up to	
		b. Count money in different denominations	sh.1000.	
		up to sh.1000,	 Learners in pairs/groups to practice 	
		c. Add and subtract money involving up	addition and subtraction of money	
		to sh.1000,	in real life situations up to sh.1000.	
		d. Carry out shopping activities involving	 Learners in pairs/groups to practice 	
		change and balance,	giving change and balance using	
		e. Relate money to goods and services up	imitation money up to sh.1000 in	
		to sh.1000,	shopping activities.	
		f. Differentiate between needs and wants,	 Learners in pairs/groups to share 	
		g. Appreciate spending and saving of	own experiences in relation to	
		money in real life situations.	shopping activities.	

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	 Learners in pairs/groups to discuss items they cannot do without and those that are necessary but they can do without. Learners in pairs/groups to classify needs and wants. Learners to play digital games involving money. 	
Core Competences to be developed: communication and collaboration		
Link to PCI's:	Link to Values:	
• ESD: financial literacy- the choice of what to buy and	• respect	
what not to buy.	 responsibility 	
• Parental Empowerment and engagement: selection of	integrity	
what to buy and what not to buy.	social justice	
Link to other learning areas:	Suggested Community Service Learning Activities:	
Language activities	Learners to visit older citizens to listen to stories involving	
Hygiene and Nutrition activities	money features.	
Suggested non- formal activity to support learning Suggested assessment:		
 Learners to help count money in school activities. 	Written exercise, oral questions, observation.	

Exceeds Expectations	Meets Expectations	Approaches Expectations	Below Expectations
Correctly: identifies	Correctly: identifies	Inconsistently: identifies Kenyan	Major inaccuracies in: identifying
Kenyan currency notes up	Kenyan currency notes up	currency notes up to sh.1000, counts	Kenya currency notes up to sh.1000,
to sh.	to sh.	money in different denominations,	counting money in different
1000, counts money in different	1000, counts money in different	adds, subtracts, carries out shopping	denominations, adding, subtracting,
denominations, adds, subtracts,	denominations, adds, subtracts,	activities within sh.1000, relates	carrying out shopping activities within
carries out shopping activities	carries out shopping activities	money to goods and services,	sh.1000, relating money to goods and
above sh.1000, relates money to	within sh.1000, relates money to	differentiates needs and wants,	services, differentiating needs and
goods and services, differentiates	goods and services, differentiates	explains meaning of spending and	wants, explaining meaning of
needs and wants, explains	needs and wants, explains meaning	saving in real life situations.	spending and saving in real life
meaning of spending and saving	of spending and saving in real life		situations.

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Strand	Sub-strand	Specific Learning Outcomes	Suggested Learning Experiences	Key Inquiry Question(s)
3.0 Geometry	3.1 Position and Direction (5 lessons)	By the end of the sub-strand, the learner should be able to: a) Move along a straight line from a point, b) Turn to the right from a point, c) Turn to the left from a point.	 Learners in pairs /groups to move along a straight line from a given point. Learners in pairs/groups to move straight along the outside of their classroom and then turn to the right or left. Learners in pairs practice moving along a straight line and turning left or right. Learners to play digital games on movement. 	What do you do when you get to a road junction?
Core Compand creativi		veloped: communication and collaboration	on, critical thinking and problem solving, digital literacy	, imagination
Link to PC	Ĭ's:		Link to Values:	
in n	novement.	reness - as learners use their body parts ohesion- as learners work in groups	cooperationresponsibilityunity	
	er learning area	9 1	• unity Suggested Community Service Learning Activities	•
LanMo	guage activities vement and creativitionmental activition	ve activities	Learners to assist in ushering people during co	
		vity to support learning: te in games, athletics and scouting.	Suggested assessment: • Written exercise, oral questions, observation.	

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Exceeds Expectations	Meets Expectations	Approaches Expectations	Below Expectations
 Correctly demonstrates movement along a straight line and turning to the right or left with ease. 	Correctly demonstrates movement along a straight line and turning to the right or left.	Inaccurately: demonstrates movement along a straight line, and turning to the right or left.	Major inaccuracies in: demonstrating movement along a straight line and turning to the right or left.

Strand	Sub-strand	Specific Learning Outcomes	Suggested Learning Experiences	Key Inquiry
3.0 Geometry	3.2 Shapes (4 lessons)	By the end of the sub-strand, the learner should be able to: a) Make patterns involving rectangles, circles, triangles, ovals and squares, b) Appreciate making patterns involving rectangles, circles, triangles, ovals and squares.	 Learners to sort and group items of different shapes. Learners in pairs /groups to discuss the types of lines making various shapes. Learners to identify and name the different shapes found in their environment. Learners to make patterns using the five shapes. Learners in groups to make patterns, colour them and share with other groups. Learners to play digital games involving shapes. 	Question(s) What shapes can you identify in your school?

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Link to PCI's:	tion, creativity and imagination, critical thinking and problem solving, digital literacy. Link to Values:
• Citizenship: leadership development, social cohesion- as learners work in groups.	respectresponsibility
Life skills: self- esteem and awareness- as learners make patterns	• unity
Link to other learning areas :	Suggested Community Service Learning Activities:
Languages activities	• Learners to visit children homes and beautify their rooms with patterns
 Movement and creative activities 	drawn on paper.
• Environmental activities	
Suggested non- formal activity to support learning:	Suggested assessment:

Exceeds Expectations	Meets Expectations	Approaches Expectations	Below Expectations
Correctly makes patterns involving rectangles, circles, triangles, ovals and squares with ease.	Correctly makes patterns involving rectangles, circles, triangles, ovals and squares.	 Inaccurately makes patterns involving rectangles, circles, triangles, ovals and squares. 	Major inaccuracies in making patterns involving rectangles, circles, triangles, ovals and squares

SUGGESTED RESOURCES

SUB -STRANDS	RESOURCES
NUMBER CONCEPT	Marbles, sticks, stones, grains
WHOLE NUMBERS	A number line drawn on the ground/floor, place value chart
	Circular and rectangular cut outs, marbles, bottle tops
FRACTIONS	,sticks, grains, stones
ADDITION	Place value chart, abacus, basic addition facts table
SUBTRACTION	Basic addition facts table, place value chart
	Bottle tops ,marbles, stones, grains, number line drawn on
MULTIPLICATION	the ground/floor, multiplication tables
DIVISION	Bottle tops, marbles, stones, sticks, grains, multiplication tables
LENGTH	Books, pencils, rulers, sticks, bottles, metre rule, metre sticks
MASS	Masses of 1kg, soil, sand, beam balance
	Containers of different sizes, 1litre containers, sand soil water,5
CAPACITY	litre containers
TIME	Clock face both analogue and digital
	Kenyan currency coins and notes/imitations up to
MONEY	sh.1000, classroom shop
	Charts showing a straight line, a turn to the left and a turn to
POSITION AND DIRECTION	the right
	Cut- outs of rectangles, circles, triangles, ovals and squares
SHAPES	of different sizes

NOTE

The following **ICT** devices may be used in the teaching/learning of mathematics at this level: Learner digital devices (LDD), Teacher digital devices (TDD), Mobile phones, Digital clocks, Television sets, Videos, Cameras, Projectors, Radios, DVD players, CD's, Scanners, Internet among others.

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