Curriculum Activities

Mathematics Grade Two

Strand	Sub- strand	Specific Learning Outcomes	Suggested Learning Experiences	Key Inquiry Question(s)	
1.0Numbers	1.1 Number Concept (8 lessons)	By the end of the sub-strand, the learner should be able to: 1. Read numbers 1-100 in symbols, 2. Represent numbers 1-100 using concrete objects in the environment.	 Learners to read number names from 1-100. Learners in groups of five to count their fingers and toes. Learners in pairs/groups to play games of representing numbers 1-100 using safe concrete objects. Learners to play digital games of representing groups with numbers. 	How can we find the number of objects in a group?	
Core Compet	tences to be	developed: communication and collaboration,	imagination and creativity, digital literacy, critical thinking a	nd problem solving.	
Link to PCI's	s:		Link to Values:		
• Life skills	: self-aware	ness and self-esteem -when using body parts.	• respect		
• ESD: DR	R ; safety- w	hen collecting items in the environment.	 responsibility 		
 Link to other learning areas: Language activities Hygiene and Nutrition activities 			Suggested Community Service Learning Activities: learners to visit older citizens and listen to stories on how they used to count their animals and household items		
Suggested no	n- formal A	activity to support learning:	Suggested assessment: oral questions, observation, and written exercise.		
Learners to co	unt number	of different objects in the classroom.			

Exceeds expectations	Meets expectations	Approaches expectations	Below expectations
Correctly: reads numbers more than 100 in symbols, represents numbers more than 100 using concrete objects.	1	Inconsistently: reads numbers 1-100 in symbols, represents numbers 1-100 using concrete objects.	Major inaccuracies in: reading numbers 1-100 in symbols, representing numbers 1-100 using concrete objects.

Strand	Sub- strand	Specific Learning Outcomes	Suggested Learning Experiences	Key Inquiry Question(s)
1.0	1.2 Whole	By the end of the sub-strand, the learner should		How do we get
Numbers	Numbers (20 lessons)	be able to: A. Count numbers forward and backward up to 100, B. Identify place value up to hundreds. C. Read numbers 1-100 in symbols, D. Read and write numbers 1-20 in words, E. Work out missing numbers in number patterns up to 100, F. Appreciate number patterns as they skip on the 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 at any point. Learners in pairs / groups to discuss place value up to hundreds. Learners in pairs to read numbers 1-100 in symbols. Learners to read and write numbers 1-20 in words. Learners to play digital games involving whole numbers. 	the next number in a pattern?
			Learners to work out missing numbers in	

	Learners in pairs/groups to make number patterns and share with other groups.
Core Competences to be developed: communication and collabor	ration, critical thinking, problem solving, digital literacy.
Link to PCI's:	Link to Values:
Citizenship: leadership- as learners work in groups.	respectresponsibility
Link to other learning areas :	Suggested Community Service Learning Activities:
Language activities	Learners to assist in arranging chairs and tables in rows and columns during
Environmental activities	community functions.
 Movement and creative activities 	
Suggested non- formal Activity to support learning: Learners to plant flowers in patterns in the school.	Suggested assessment: oral questions, written exercise, observation.

Exceeds expectations	Meets expectations	Approaches expectations	Below expectations
Correctly: Counts to more than 100, identifies place value up to more than hundreds, reads numbers more than 100 in symbols, reads and writes numbers more than 20 in words, works out missing numbers in patterns.	Correctly: Counts to more than 100, identifies place value up to more than hundreds, reads numbers more than 100 in symbols, reads and writes numbers more than 20 in words, works out missing numbers in patterns.	Inconsistently: counts from 1-100, identifies place value up to hundreds, reads numbers 1-100 in symbols, reads and writes numbers 1-20 in words, works out missing numbers in patterns.	Major inaccuracies in: counting from 1-100, identifying place value up to hundreds, reading numbers 1-100 in symbols; reading and writing numbers 1-20 in words, working out missing numbers in patterns.

Strand	Sub-strand	Specific Learning Outcomes	Suggested Learning Experiences	Key Inquiry Question(s)
1.0 Numbers	1.3 Fractions (12 lessons)	By the end of the sub-strand, the learner should be able to: • Identify a as part of a whole, 1 4 • Identify a as part of a whole.	 Learners in pairs to make circular paper cut- outs. Learners in pairs to fold the circular paper cut – outs into two equal parts and identify one of the parts as a half of the whole written as. boarrant foldairent into we equal parts apeget thalf of a whole written as . Learners in pairs to fold circular paper cut – outs to get 4 equal parts and identify one of the parts as a of a whole. Learners to play digital games involving fractions. Learners in pairs to practice making halves and 	What fraction do you get when you fold a circular paper cut- out into 4 equal parts?
Core Comp	etences to be de	eveloped: imagination and creativity, commu	unication and collaboration, critical thinking and problem solv	ing, digital literacy.
Link to PC	I's:	-	Link to Values:	
Life skills: in	terpersonal rela	tionship- making friends.	unityintegrityresponsibility	
• Languag	er learning area ge activities and Nutrition ac		learners to share whole edible items in _s aŶd 's duriŶ functions.	g ĐoŵŵuŶity
		ivity to support learning: ple items in halves and quarters in school.	Suggested assessment: oral questions, written exercise, or	bservation.

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Exceeds Expectations	Meets Expectations	Approaches Expectations	Below Expectations
Correctly identifies and and more fractions as part of a whole.	Correctly identifies and as part of a whole.	Inconsistently identifies and as part of a whole	Major inaccuracies in identifying
•			and as part of a whole.

Strand	Sub-strand	Specific Learning Outcomes	Suggested Learning Experiences	Key Inquiry Question(s)
1.0 Numbers	1.4 Addition (20 lessons)	By the end of the sub-strand, the learner should be able to: A. Add a 2- digit number to a 1- digit number without and with regrouping with sum not exceeding 100, B. Add 3-single digit numbers up to a sum of 20, C. Add a 2-digit number to a 2-digit number without and with regrouping, with sum not exceeding 100, D. Workout missing numbers in patterns involving addition of whole numbers up to 100.	 Learners in pairs to write addition sentences given in horizontal form vertically according to place value. Learners to add a 2- digit number to a 1- digit number without and with regrouping. Learners to practice addition by skipping on the number line. Learners in pairs/groups to collect different safe objects and use them in addition of 3-single digit numbers. Learners in pairs/groups to practice breaking numbers apart to make a 10. Learners in pairs to come up with different ways of adding two 2-digit numbers without and with regrouping. Learners to play digital games involving addition. Learners in groups to make patterns using numbers up to 100. 	 How can we align a 2-digit number and a 1- digit number vertically in order to add? When do we regroup?

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Core Competences to be developed: communication and collaboration	ion critical thinking and problem solving digital literacy
Link to PCI's:	Link to Values:
• ESD: DRR; safety – as learners collect objects.	• respect
• Citizenship: social cohesion - when working in groups.	 responsibility
	• unity
Link to other learning areas :	Suggested Community Service Learning Activities: learners to visit older
• Language activities	citizen homes and assist them in getting the total number of different items
Hygiene and Nutrition activities	in their homes.
Suggested non- formal Activity to support learning:	Suggested assessment: oral questions, written exercises, observation.
Learners to plant flowers in patterns in school.	

Exceeds Expectations	Meets Expectations	Approaches Expectations	Below Expectations
Correctly: adds more than two 2-digit	Correctly: adds up to two 2-digit	Inconsistently: adds up to two 2-digit	Major inaccuracies in: adding up to two
numbers with sums not exceeding 100	numbers with sums not exceeding 100	numbers with sums not exceeding 100	2-digit numbers with sums not
using different strategies, works out	using different strategies, works out	using different strategies, works out	exceeding 100 using different strategies,
missing numbers in patterns up to	missing numbers in patterns up to	missing numbers in patterns up to	working out missing numbers in patterns
100.	100.	100.	up to 100.
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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: Subtract up to 2- digit numbers without regrouping, Use the relationship between addition and subtraction in working out problems, Work out missing numbers in subtraction of up to 2- digit numbers, Work out missing numbers in patterns involving subtraction up to 100. 	 Learners in pairs /groups to subtract single digit numbers by comparing groups of objects. Learners to subtract up to 2-digit numbers without regrouping in horizontal and vertical forms. Learners to discuss the relationship between addition and subtraction using number families. Learners to work out missing numbers in subtraction of up to 2- digit numbers. Learners to play digital games involving subtraction. Learners to work out missing numbers in patterns involving subtraction. 	How do you work out missing numbers in patterns involving subtraction?

Core Competences to be developed: communication and collaboration, critical thinking and problem solving, self-efficacy, imagination and creativity, digital literacy.

Link to PCI's:	Link to Values:
• Life skills: interpersonal relationship, effective	• respect
communication, friendship formation - as learners work in	• unity
groups.	 responsibility
• Citizenship : social cohesion – as learners work in groups.	
Link to PCI's:	Link to Values:
• Life skills: interpersonal relationship, effective	• respect
communication, friendship formation - as learners work in	• unity
groups.	 responsibility
Suggested non- formal Activity to support learning:	Suggested assessment: oral questions, written exercise, observation.
Learners to collect litter during school cleaning activities.	

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Exceeds Expectations	Meets Expectations	Approaching Expectations	Below Expectations
Correctly: Subtracts up to more than 2- digit numbers without regrouping, works out missing numbers in number patterns up to 100.	Correctly: subtracts up to 2- digit numbers without regrouping, works out missing numbers in number patterns up to 100	Inconsistently: subtracts up to 2- digit numbers without regrouping, works out missing numbers in number patterns up to 100.	Major inaccuracies in: subtracting up to 2- digit numbers without regrouping, working out missing numbers in number patterns up to 100.

Strand	Sub-Strand	Specific Learning Outcomes	Suggested Learning Experiences	Key Inquiry Question(s)
1.0 Numbers	1.6 Multiplication (12 lessons)	By the end of the sub-strand, the learner should be able to: A. Represent multiplication as repeated addition using numbers 1, 2, 3, 4 and 5 up to five times, B. Write repeated addition sentences as multiplication, using '×' sign, C. Multiply single digit numbers by 1, 2, 3, 4, 5 and 10.	 Learners in pairs/groups to use counters to represent multiplication as repeated addition. Learners in pairs/groups to use number lines to represent multiplication as repeated addition. Learners to use '×' sign in writing repeated addition sentences as multiplication. Learners to multiply single digit numbers by 1, 2, 3, 4, 5 and 10. Learners to play digital games involving multiplication. Learners could visit the local market to see how fruits are arranged in groups of 3's, 4's 	How do you represent multiplication as repeated addition?

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Core Competences to be developed: communication and collaboration	critical thinking and problem solving, digital literacy
 Link to PCI's: Life skills: self- awareness- when learners use their fingers. ESD:DRR; environmental awareness - re- use of materials collected 	Link to Values: • respect • unity • responsibility
Link to other learning areas: • Language activities • Environmental activities	Suggested Community Service Learning Activities: learners to visit older citizens and assist them in arranging items in groups of equal numbers
Suggested non- formal Activity to support learning: learner to work out total number of desks in their classroom through repeated addition	Suggested assessment: oral questions, written exercises, observation.

Exceeds Expectations	Meets Expectations	Approaches Expectations	Below Expectations
Correctly: represents multiplication as	· · ·	7 1	Major inaccuracies in: representing
repeated addition, uses multiplication sign, multiplies single digit numbers	repeated addition, uses multiplication sign, and multiplies single digit	multiplication as repeated addition, uses multiplication sign, and	multiplication as repeated addition, using multiplication sign,
by 1, 2, 3, 4, 5, and 10 and goes	numbers by 1, 2, 3, 4, 5 and 10.	multiplies single digit numbers by	multiplying single digit numbers by
beyond.		1, 2, 3, 4, 5 and 10.	1, 2, 3, 4, 5
			and 10.

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Strand 1.0 Numbers	Sub-Strand 1.7 Division (8 lessons)	Specific Learning Outcomes By the end of the sub-strand, the learner should be able to: A. Represent division as equal sharing, B. Represent division as equal grouping, C. Use ' ÷ 'sign in writing division sentences, D. Divide numbers up to 25 by 2, 3, 4 and 5 without a remainder in real life situations.	 Learners in pairs/groups to share a given number of objects equally by each picking one object at a time until all are finished and then count how many each got. Learners in pairs/groups to pick an equal number of objects at a time from the main group and count the number of small equal groups formed. Learners to use ','sign in writing division sentences. Learners to play digital games 	Key Inquiry Question(s) How can you share a given number of objects equally?
Core Com	petences to be	developed: communication and collaboration, critical	involving division. • Learners to divide numbers up to 25 by 2, 3, 4 and 5 without a remainder. thinking and problem solving, digital literacy.	
	izenship: socia	l cohesion- as learners work in groups. - of materials that learners use.	Link to Values:	
• Lar	Link to other learning areas: • Languages activities • Environmental activities		Suggested Community Service Learning Activities: learŶers to isit ĐhildreŶs hoŵes aŶd share fruits as a ay of gi iŶg ďaĐk to the community	
	Suggested non- formal activity to support learning: Learners to plant seedlings in rows in school.		Suggested assessment: oral questions, written exercises, observation.	

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Exceeds Expectations	Meets Expectations	Approaches Expectations	Below Expectations
Correctly: represents division as equal sharing and equal grouping, uses division sign, divides numbers up to 25 by 2, 3, 4, and 5 without a remainder and goes beyond.	Correctly: represents division as equal sharing and equal grouping, uses division sign, divides numbers up to 25 by 2, 3, 4 and 5 without a remainder.	Inconsistently: represents division as equal sharing and equal grouping, uses division sign, divides numbers up to 25 by 2, 3, 4 and 5 without a remainder.	Major inaccuracies in: representing division as equal sharing and equal grouping, using division sign, dividing numbers up to 25 by 2, 3, 4, and 5 without a remainder.

Strand	Sub-Strand	Specific Learning Outcomes	Suggested Learning Experiences	Key Inquiry Question(s)
2.0	2.1 Length	By the end of the sub-strand,		What can you use to
Measurement	(6 lessons)	the learner should be able to:A. Measure length using fixed units,B. Identify the metre as a unit of measuring length,C. Measure length in metres.	 Learners in pairs/groups to use sticks of equal length to measure different lengths, record and discuss the results. Learners in pairs/groups to measure length using sticks of different lengths, including 1- metre sticks and identify the 1- metre sticks. Learners to make 1-metre sticks and use them in measuring various lengths within the classroom, record and discuss the results. Learners to play digital games involving length in metres. 	measure different lengths?

Core Competences to be developed: communication and collaboration, critical thinking and problem solving, imagination and creativity, digital literacy, learning to learn.

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Link to PCI's:	Link to Values:
• Citizenship: social cohesion- as workers work in groups.	respect
• ESD:DRR; safety- of materials learners use .	 responsibility
Link to other learning areas:	Suggested Community Service Learning Activities:
 Languages activities 	Learners to assist their neighbours to measure length during building of chicken
Environmental activities	/rabbit cages among others.
Suggested non- formal activity to support learning:	Suggested assessment: oral questions, written exercises, observation.
Learners to measure length of their school fields in metres during	
games.	

Exceeds Expectations	Meets Expectations	Approaches Expectations	Below Expectations
Correctly: measures length using	Correctly: measures length using	Inconsistently: measures length using	Major inaccuracies in: measuring
fixed units, identifies the metre as a	fixed units, identifies the metre as	fixed units, identifies the metre as a	length using fixed units, identifying
unit of measuring length and	a unit of measuring length and	unit of measuring length and	the metre as a unit of measuring
measures length in metres with ease.	measures length in metres.	measures length in metres.	length and measuring length in
	-	_	metres

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Strand	Sub-Strand	Specific Learning Outcomes	Suggested Learning Experiences	Key Inquiry Question(s)
2.0	2.2 Mass	By the end of the sub-strand,		What can we use
Measurement	(6 lessons)	 the learner should be able to: A. Measure mass using fixed units, B. Identify the kilogram as a unit of measuring mass, C. Measure mass in kilograms 	 Learners in pairs/groups to use items of same mass and a beam balance to measure different masses record and discuss the results. Learners in pairs/groups to use an item equivalent to a 1-kilogram mass and a beam balance to make other 1-kilogram masses and use them to compare other masses. Learner to practice measuring mass in kilograms using a 1- kilogram mass. Learners to play digital games involving mass in kilograms. 	to measure mass?
Core Competer Link to PCI's:	nces to be develop	ped: communication and collaboration	n, critical thinking and problem solving, imagination and Link to Values:	creativity, digital literacy.
	hin: social cohesio	on- as learners work in groups.	• respect	
	_	erials learners use.	• integrity	
			 responsibility 	
Link to other learning areas : • Language activities • Environmental activities			Suggested Community Service Learning Activities: Learners to assist their neighbours to measure mass of items in their homes in kilograms.	
	Suggested non- formal activity to support learning:		Suggested assessment: oral questions, written exercise	, observation.
		s in their classroom in kilograms		
during their free	e time.			

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Exceeds Expectations	Meets Expectations	Approaches Expectations	Below Expectations
Correctly: measures mass using fixed	Correctly: measures mass using fixed	Inconsistently: measures mass using	Major inaccuracies in: measuring
units, identifies and uses the	units, identifies and uses the	fixed units, identifies and uses the	mass using fixed units,
kilogram as a unit measuring mass	kilogram as a unit of measuring	kilogram as a unit of measuring	identifying and using the
with ease.	mass.	mass	kilogram as a unit measuring
			mass.

Strand	Sub-Strand	Specific Learning Outcomes	Suggested Learning Experiences	Key Inquiry Question(s)
2.0 Measurement	2.3 Capacity (8 lessons)	By the end of the sub-strand, the learner should be able to: A. Measure capacity using fixed units, B. Identify the litre as a unit of measuring capacity, C. Measure capacity in litres.	 Learners in pairs /groups to use small containers of equal capacity to fill bigger containers of same capacity but different shapes with water and count the number of small containers used to fill them. Learners in pairs/groups to use 1 litre containers to fill big containers with water and count the number of litres used to fill the big containers. 	What can you use to measure capacity of different containers?
Com Community			 Learners in groups to measure the capacity of different containers in litres. Learners to play digital games involving capacity. 	

Core Competences to be developed: communication and collaboration, critical thinking and problem solving, imagination and creativity, citizenship, digital literacy.

Link to PCI's:	Link to Values:
Health Education: personal hygiene - brushing teeth, washing	• respect

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 face. Citizenship: social cohesion- as learners work in groups. ESD: DRR; safety- of materials learners use. 	• responsibility
Link to other learning areas: Language activities Religious activities 	Suggested Community Service Learning Activities: Learners to assist their neighbours in keeping their compounds clean during school holidays.
Suggested non-formal activity to support learning: Learners to clean their classroom during free time.	Suggested assessment: oral questions, written exercise, observation.

Exceeds Expectations	Meets Expectations	Approaching Expectations	Below Expectations
Correctly: relates months of the year	Correctly: relates months of the year	Inconsistently: relates months of the	Major inaccuracies in: relating
to various activities, identifies	to various activities, identifies	year to various activities, identifies	months of the year to various
number of days in each month,	number of days in each month,	number of days in each month,	activities, identifying number of
measures time using arbitrary and	measures time using arbitrary and	measures time using arbitrary and	days in each month, measuring time
fixed units, identifies the minute and	fixed units, identifies the minute and	fixed units, identifies the minute	using arbitrary and fixed units,
the hour hand in a clock face and	the hour hand in a clock face and	and the hour hand in a clock face	identifying the minute and the hour
reads, tells and writes time by the	reads, tells and writes time by the	and reads, tells and writes time by	hand in a clock face and reading,
hour with ease.	hour.	the hour.	telling and writing time by the hour.

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Strand	Sub-Strand	Specific Learning Outcomes	Suggested learning experiences	Key Inquiry Question(s)
2.0 Measurement	2.5Money (10 lessons)	By the end of the sub-strand, the learner should be able to: A. Identify Kenyan currency coins and notes up to sh.100, B. Count money in sh.1, sh.5, sh.10, sh.20, sh.40, sh.50 up to sh.100, C. Represent same amount of money in different denominations, D. Relate money to goods and services up to sh.100, E. Differentiate between needs and wants in real life context, F. Appreciate spending and saving of money in real life situations.	 Learners in pairs/groups to sort out Kenyan currency coins and notes according to their features up to sh.100. Learners in groups to put different coins and notes together and separate them according to their values and features. Learners in pairs/groups to count money in sh.1, sh.5, sh.10, sh.20, sh.40, sh.50 up to sh.100. Learners in pairs/groups to make same amount of money using different denominations. Learners in pairs/groups to discuss items they cannot do without and those that are necessary but they can do without up to a value of sh.100. Learners in pairs/groups to classify needs and wants. Learners to discuss the importance of saving. Learners to play digital games involving money. Learners could record a video during a role play of classroom shopping activities for replay and discussion later. 	How can you identify different Kenyan currencies?

Core Competences to be developed: communication and collaboration, critical thinking and problem solving, imagination and creativity, citizenship, digital literacy.

Link to PCI's:

- **Life Skills**: interpersonal relationship, effective communication during shopping activities.
- Citizenship: patriotism—money is a symbol of national unity.
- **ESD:DRR**; safety of materials in classroom shop, financial literacy.

Link to Values:

- respect
- responsibility
- integrity
- patriotism

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Link to other learning areas: • Language activities • Environmental activities • Religious activities	Suggested Community Service Learning Activities: • Learners to assist in counting money offered in religious and non-religious functions.	
Suggested non- formal activity to support learning: • Learners to assist the school clerk in sorting coins and notes	Suggested assessment: oral questions, written exercise, observation	
according to their value.		

Exceeds Expectations	Meets Expectations	Approaches Expectations	Below Expectations
Correctly: identifies Kenyan currency notes and coins beyond sh.100, counts money in different denominations, works out equivalence of different denominations, relates money to goods and services and differentiates needs and wants.	Correctly: identifies Kenyan currency notes and coins up to sh.100, counts money in different denominations, works out equivalence of different denominations and relates money to goods and services, and differentiates needs and wants.	Inconsistently: identifies Kenyan currency notes and coins up to sh.100, counts money in different denominations, works out equivalence of different denominations, relates money to goods and services and differentiates needs and wants.	Major inaccuracies in: identifying Kenyan currency notes and coins up to sh.100, counting money in different denominations, working out equivalence of different denominations, relating money to goods and services and differentiating needs and wants.

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Strand	Sub- strand	Specific Learning Outcomes	Suggested Learning Experiences	Key Inquiry Question(s)	
3.0Geometry	3.1 Lines (5 lessons)	By the end of the sub-strand, the learner should be able to: A. Draw and model straight lines, B. Draw and model curved lines.	 Learners in pairs /groups to model straight and curved lines using sticks plasticine /clay/ papiermache. Learners in groups to model straight and curved lines using strings. Learners in groups to model straight and curved lines by holding their hands. Learners to draw straight and curved lines. Learners to model straight and curved lines using learner digital devices. 	What types of lines do you know?	
		leveloped: communication and collaboration, imag	ination and creativity, self- efficacy, digital literacy.		
	kills : self- aw	rareness - as learners use their body parts. of materials in modeling lines.	Link to Values: respect responsibility		
Links to other learning areas: • Movement and creative activities • Environmental activities			 Suggested Community Service Learning Activities: Learners to assist in arranging seats in straight lines in community functions. 		
Suggested non- formal activity to support learning: • Learners to arrange seats in straight lines in the classroom.			Suggested assessment: • Oral questions, written exercise, observation.		

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ASSESSMENT RUBRICS

Exceeds Expectations	Meets Expectations	Approaches Expectations	Below Expectations
 Correctly draws and models	Correctly draws and models straight and curved lines.	 Inconsistently draws and	Major inaccuracies in drawing
straight and curved lines with		models straight and curved	and modelling straight and
ease.		lines.	curved lines

Strand	Sub-strand	Specific Learning Outcomes Su	ggested Learning Experiences	Key Inquiry Question(s)		
3.0 Geometry	3.2 Shapes (5 lessons)	By the end of the sub-strand, the learner should be able to: A. Identify rectangles, circles, triangles, ovals and squares, B. Appreciate making patterns involving rectangles, circles, triangles, ovals and squares.	 Learners in pairs/groups to sort and group items of different shapes. Learners in pairs/groups to discuss types of lines making different shapes. Learners to identify and name the different shapes found in their classroom. Learners to make patterns of their choice using the five shapes. Learners in groups to make patterns, colour them and share with other groups. Learners to make patterns using digital devices. 	 What shapes can you identify in your environment? What shapes are made by straight lines? What shapes are made by curved lines? 		
Core Com	Core Competences to be developed: communication and collaboration, imagination and creativity, self- efficacy, digital literacy					
Link to PC	CI's:		Link to Values:			
• Life	 Life Skills: self- awareness - use of their hands in making patterns. respect 					

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ESD: DRR; safety- of materials in making patterns.	• unity
	 responsibility
Link to other learning areas:	Suggested Community Service Learning Activities:
 Movement and creative activities 	 Learners to visit the children homes and beautify their walls with
 Environmental activities 	patterns drawn on paper.
Suggested non- formal activity to support learning:	Suggested assessment:
 Learners to make patterns and stick them on classroom walls for 	 Oral questions, written exercise, observation.
beauty.	

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

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SUGGESTED RESOURCES

SUB -STRANDS	RESOURCES
NUMBER CONCEPT	Bottle tops, marbles, sticks, stones, grains
WHOLE NUMBERS	Bottle tops, marbles, sticks, stones, grains, a number line drawn on the ground/floor
FRACTIONS	Circular and rectangular cut outs
ADDITION	Bottle tops, marbles, stones, sticks, grains, place value chart, abacus, basic addition facts table, a number line drawn on the ground/floor
SUBTRACTION	Bottle tops, marbles, sticks, stones, grains, basic addition facts table, a number line drawn on the ground/floor
MULTIPLICATION	Bottle tops, marbles, stones, grains, number line drawn on the ground/floor, multiplication table
DIVISION	Bottle tops, marbles, sticks, stones, grains, multiplication tables
LENGTH	Pencils, sticks, rulers, strings, ropes
MASS	Items of different masses such as books ,stones, pieces of wood, items of same mass, beam balance
CAPACITY	Containers of different sizes, 1-litre containers, water, soil, sand
TIME	Charts with number of days in each month and months of the year in order, clock face both analogue and digital
MONEY	Money in coins and notes sh.1, sh.5, sh.10, sh.20, sh.40, sh.50, sh.100, classroom shop
LINES	Sticks, clay, plasticine, strings, ropes
SHAPES	Cut- outs of rectangles, circles, triangles, ovals and squares 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, CDs, SĐaŶŶers, IŶterŶet among others

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