

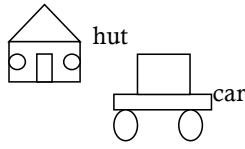










LA.4 DEVELOPING AND USING MATHEMATICAL CONCEPTS IN MY DAY TO DAY EXPERIENCES
NUMBERS SCHEME OF WORK FOR MIDDLE CLASS 4-5 YEARS TERM III





Learning outcome I: Surveying, knowing and distinguishing the attributes of objects.

W K	P D	MAJOR COMPET ENCE	SPECIFI C COMPET ENCE	CONTENT	COMPETENCE	TECH /METHOD S	ACTIVI TIES	IND. OF L.SKILLS & VALUES	L/AID S	REF	R E M
1	1	Orientatio n	Registrati on	Sing songs Recite the rhyme Tell the stories of their own.	The learner; - sings the songs. - recites the rhymes. - tells stories	explanation demonstrati on story telling	singing reciting telling stories	problem solving logical & critical thinking	Nurser y rhymes	Nursery rhymes Story books	
	2	Identifyin g relations hip and differenc es between objects and shapes	Revision of shapes	Name the shapes orally. circle, rectangle, oval, star, triangle, square. ○ circle □ rectangle △ triangle ○ oval	The learner; - names the shapes orally. - reads the words. - spells the words.	explanation demonstrati on question & answer	naming reading spelling	effective communicat ion confidence fluency	cut outs of shapes	Kinderga rten 2 book 1 page 31 At home with	






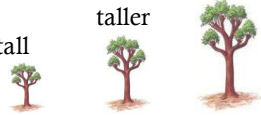
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	3		Constructing things from different shapes.	Construct things from different shapes. e.g. hut car doll etc.. 	The learner; - constructs things from different shapes. - names the shapes. - form shapes. - names things constructed.	explanation demonstration market stall guided discovery	constructing things naming forming	problem solving creative & logical thinking responding to questions	cut outs of shapes bottle tops	Maths page 8
	4		Read and draw the shapes	Reading the words. Draw the shapes. circle  zigzag  square  kite 	The learner; - draws the shapes - reads the words - spells the words.	explanation question & answer demonstration	drawing reading spelling	problem solving critical thinking responding to questions	cut outs of shapes cards	Kindergarten 2 book 1 page 31 At home with Maths page 9
	5		Naming shapes	Name the shapes in the books.  semicircle  line  star	The learner; - names the shapes - reads the words - spells the words - draws the shapes.	question & answer explanation demonstration	naming reading spelling drawing	effective communication confidence making choice	cards cut outs of shapes	At home with Maths pg 8-9 Kindergarten 2 book 1 page 31
Learning outcome II: Comparing things according to different attributes.										
2	1	Showing relation among things in serial order.	Comparing objects orally	Compare objects using bigger and smaller orally. e.g.  cup jerry can	The learner; - compares objects - reads the words.	explanation question & answer observation demonstration	comparing reading	effective communication audibility confidence	real objects like cup, jerry can, stones etc..	Longhorn Maths Practice book page 11

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			<p>A cup is smaller A jerrycan is bigger</p>  <p>Stone A is bigger than B Stone B is smaller than A</p>						
2		Comparing objects	<p>Compare objects using bigger and smaller. e.g. table chair</p>  <p>A table is bigger than a chair. A chair is smaller than a table</p>	<p>The learner; - compares objects using smaller and bigger. - reads the words - draws the objects</p>	<p>explanation observation question & answer</p>	<p>comparing reading drawing</p>	<p>problem solving critical & logical thinking responding to question appropriately.</p>	<p>cards with picture of different size.</p>	<p>Longhorn Maths Practice book page 11</p>
3	Showing relations among things in serial order	Comparing things	<p>Comparing objects using heavier and lighter orally.</p>  <p>Jane is heavier than Ritah Ritah is lighter than Jane</p>	<p>The learner; - compares the objects using heavier and lighter. - reads the words - observes children sitting on the seesaw.</p>	<p>explanation observation demonstration question & answer</p>	<p>comparing reading observing</p>	<p>problem solving logical & critical thinking</p>	<p>seesaw</p>	<p>Improve your Maths std 1 pg 17,18 At home with Maths page 26</p>
4		Comparing things	<p>Compare using longer and shorter orally. rope snake</p>  <p>A rope is longer than a snake A snake is shorter than a rope.</p>	<p>The learner; - compares the objects using shorter and longer. - reads the words. - observes the objects well.</p>	<p>observation question & answer explanation</p>	<p>comparing reading observing</p>	<p>problem solving creative thinking responding to question appropriately.</p>	<p>real objects like pencils, sticks</p>	<p>At home with Maths page 12</p>

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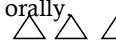




			<p>pencil stick</p>  <p>A pencil is shorter than a stick. A stick is longer than a pencil.</p>							
5		Comparing three or more objects	<p>Compare using tallest and shortest.</p>  <p>A tree is taller than a girl. A girl is shorter than a tree.</p>	<p>The learner;</p> <ul style="list-style-type: none"> - compares the objects using taller and shorter. - reads the words - spell the words - draws the pictures 	<p>explanation observation question & answer demonstration</p>	<p>comparing reading spelling drawing</p>	<p>effective communication audibility confidence</p>	<p>real objects e.g trees, children in the class</p>	<p>Longhorn Maths Practice book page 12</p>	
3	1	Comparing more things	<p>Compare things using longest and shortest.</p> <p>shortest long</p>  <p>shorter longer</p>  <p>short longest</p> 	<p>The learner;</p> <ul style="list-style-type: none"> - compares objects using longest and shortest. - spell the words and reads them. 	<p>observation question & answer explanation market stall</p>	<p>comparing reading spelling</p>	<p>problem solving critical & logical thinking</p>	<p>real objects like the sticks, rulers etc..</p>	<p>At home with Maths page 12</p>	
2		Comparing three or more objects	<p>Compare using tallest and shortest.</p> <p>tall taller tallest</p>  <p>shortest shorter short</p>	<p>The learner;</p> <ul style="list-style-type: none"> - compares objects using tallest & shortest. - reads the words. - spells the words. - draws the objects. 	<p>explanation questions & answer observation</p>	<p>comparing reading spelling drawing</p>	<p>problem solving creative, critical & logical thinking</p>	<p>real objects like trees, people</p>	<p>Longhorn Maths Practice book page 12</p>	





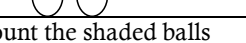




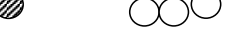
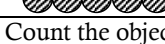

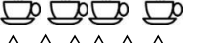

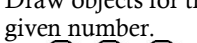


Learning outcome III: Recognising, describing and representing numbers and their relationship and solving mathematical problems.



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	3	Counting things and numbers	Counting and reciting numbers from 0-30	Count and recite the numbers. 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16,30	The learner; - counts the numbers 0-30. - recites the numbers 0-30	explanation demonstration question & answer	counting reciting	problem solving making choice taking decision	number cards counter	Mk Thematic Maths Practice bk page 30
	4		Fill in the missing numbers 0-20	Fill in the missing numbers. 0, 1, 2, <u>3</u> , 4, 5, ____, 7, 8, 9, 10, <u>11</u> , 12, ____, 14, 15, ____, 16, ____, 19, 20	The learner; - fills in the missing numbers. - recites the numbers. - recognises numbers.	explanation demonstration question & answer	filling in reciting recognising	effective communication confidence audibility responding	number cards counter	At home with pg 16 Fun with counting pg 10 & 11
	5	Counting things and numbers	Counting, copying and writing numbers 21-30	Write the numbers 21-30. 21 22 23 24 25 26 27 28 29 30 Count the numbers Copy the numbers	The learner; - writes the numbers - counts the numbers - copies the numbers	explanation observation market stall	writing counting copying	problem solving logical & critical thinking	bottle tops number cards	Kindergarten bk 2 page 11
4	1		Fill in the missing 21-30	Fill in the missing numbers. 21, 22, ____ 24, 25, 26 ____ 26, 27, <u>28</u> , 29, 30 27, 28, ____, 30	The learner; - fills in the missing number. - reads the numbers - recognises numbers	demonstration question & answer explanation	fill in reading recognising	problem solving creative, logical & critical thinking	bottle tops number cards	Kindergarten bk 2 page 11
	2		Write the next number	Write the next number. 20, 21, 22 ____ 24, 25, 26, ____ 26, 27, 28, ____ 23, 24, 25, 26, ____	The learner; - writes the next number. - reads the numbers. - identifies the numbers.	explanation demonstration question & answer	writing reading identifying	problem solving critical & logical thinking responding to questions	number cards counter	Kindergarten bk 1 page 11
	3		Write the number after	Write the number after. 2 <u>3</u> 6 ____ 20 ____ 24 ____ 10 ____ 29 <u>30</u>	The learner; - writes the number between.	questions & answer explanation	writing reciting identifying	problem solving	flash cards	Kindergarten bk 1 page 11







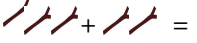
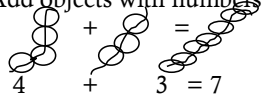

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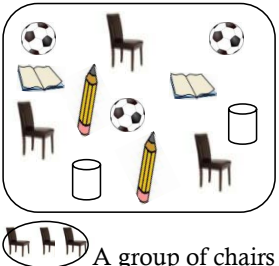
				5 ____ 16 ____	- recites the numbers. - identifies the numbers.	demonstration		critical & logical thinking	wall cards		
	4		Write the number between	Write the number between. 1 <u>2</u> 3 7 ____ 9 12 ____ 14 21 <u>22</u> 23 26 ____ 28 4 ____ 6	The learner; - writes the numbers between. - recites the numbers - identifies the numbers	question & answer explanation demonstration	writing reciting identifying	problem solving critical & logical thinking	flash cards wall cards	Kindergarten bk 2 page 11	
	5		Write the number before	Write the number before. __4 <u>6</u> 7 <u>19</u> 20 __6 __12 <u>14</u> 15 __8 __11	The learner; - writes the number before. - recites the numbers.	explanation demonstration market stall question & answer	writing reciting	effective communication confidence responding to question	number cards	Kindergarten bk 2 page 11	
5	1	Counting things and numbers	Circle the correct number	Circle the correct number orally.  4 <u>3</u> 2  1 6 5  2 7 8  9 4 3  0 6 1	The learner; - circles the correct number - counts the objects - read the numbers	explanation demonstration question & answer	circling counting reading	Effective communication confidence audibility responding to questions	flash cards number cards	Kindergarten bk 2 page 11	
	2		Circle the correct number	Circle the correct number ε m 3 w 6 5 — 1 /	The learner; - circles the correct number. - reads the numbers. - recognises the numbers well.	explanation observation question & answer	circling reading recognizing	problem solving logical & critical thinking responding to questions	number cards	Mathematics activities for pre-primary 2 page 18	

	3		Shade for the given number	<p>Shade for the given number.</p>  <p>4 =</p>  <p>6 =</p>  <p>3 =</p>  <p>2 =</p>  <p>5 =</p> 	<p>The learner;</p> <ul style="list-style-type: none"> - shades the balls for the given number. - recites the numbers. - counts the objects. 	<p>explanation demonstration jig saw question & answer</p>	<p>shading reciting counting</p>	<p>problem solving critical & logical thinking</p>	<p>counter</p>	<p>At home with Maths</p>
	4		Count the shaded balls	<p>Count the shaded balls and write the numbers.</p>  <p>=5</p>  <p>=7</p>  <p>=3</p>  <p>=4</p>  <p>=6</p>	<p>The learner;</p> <ul style="list-style-type: none"> - counts the shaded balls. - writes the numbers - recites the numbers. 	<p>explanation demonstration question & answer</p>	<p>counting writing reciting</p>	<p>creative & logical thinking responding to questions</p>	<p>counter like bottle tops, counting sticks</p>	<p>At home with Maths</p>
	5		Count and write	<p>Count the objects and write the number.</p>  <p>=7</p>  <p>=4</p>  <p>=6</p>  <p>=3</p>	<p>The learner;</p> <ul style="list-style-type: none"> - counts the objects - writes the numbers - recites the numbers 	<p>explanation observation demonstration question & answer</p>	<p>counting writing reciting</p>	<p>effective communication confidence responding to questions</p>	<p>flash cards real objects counter</p>	<p>Little for number book page 3-12</p>
6	1	Counting things and numbers	Draw for the number	<p>Draw objects for the given number.</p> <p>5 = </p> <p>2 = </p> <p>4 =</p> <p>6 =</p>	<p>The learner;</p> <ul style="list-style-type: none"> - draws objects for the given number. - recites the numbers. - recognises the numbers. 	<p>explanation demonstration question & answer</p>	<p>drawing reciting recognising counting</p>	<p>critical thinking selecting and evaluating for the information</p>	<p>real objects ball counter</p>	<p>Little star number book page 3-12</p>





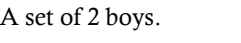
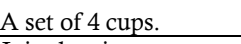



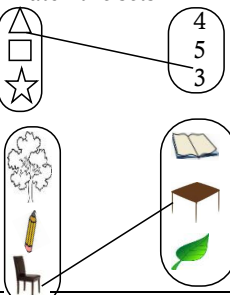
			3 =	- counts the objects						
2		Count and write	Count and write  A cow has _____ legs  A boy has ____ eyes.	The learner; - counts the legs of the cow. - counts the eyes. - writes the number	explanation demonstration question & answer	counting writing	effective communication confidence responding to questions	real objects like boys, girls, table	Teachers collection	
3		Revision of number named words	Write the number names/words (0-10) 0 - zero 6 - six 8 - eight 3 - three 10 - ten	The learner; - writes the number names. - reads the numbers names - spells the number names.	explanation market stall demonstration	writing reading spelling	friendship formation using polite language sharing	flash cards papers pencils	At home with Maths page 16	
4		Copy, read and spell number words 11-15	Copy, read and spell the number names/words. 11 eleven 12 twelve 13 thirteen 14 fourteen 15 fifteen	The learner; - copies the number words. - reads the number names. - spells the number names	explanation demonstration	copying reading spelling	co-operation sharing care	wall charts for numbers and words or names	At home with Maths page 16	
5		Match numbers with words 11-15	Match numbers to words. 11 ————— thirteen 12 ————— fourteen 13 ————— fifteen 14 ————— eleven 15 ————— twelve	The learner; - matches numbers to words. - reads the words. - spells the words - writes the words.	explanation demonstration market stall	matching reading spelling writing	problem solving critical thinking logical reasoning	flash cards number cards	At home with Maths page 16	
7	1	Counting things and numbers	“x” the correct word for the number “x” the correct word for the number. 6 six two nine 2 three five two 9 one nine ten	The learner; - puts “x” on the correct word for the number.	explanation demonstration	putting ‘x’ reciting reading spelling	problem solving critical & logical thinking	flash cards	At home with Maths page 16	

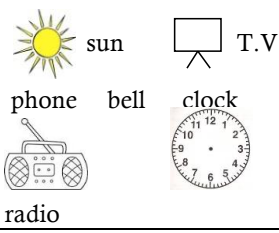
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			7 one seven zero 10 eight three ten	- recites the number. - reads the words - spells the words.	question & answer					
2		Read and write the number	Read the words and write the number 0-10 five <u>5</u> eight ___ nine ___ zero ___ seven <u>7</u>	The learner; - reads the words. - spells the words. - writes the numbers for the word.	explanation observation question & answer	reading spelling writing	creative & logical thinking responding to questions appropriately	number cards	At home with Maths page 16	
3		Count and write the number word/name	Count and write the number names. 0-10  = four  = three  = seven	The learner; - counts the objects - writes the number word - reads the words - spells the words.	explanation demonstration jigsaw	counting writing reading	friendship formation using polite language co-operation	real objects e.g tins, bottles pencils	Little star number book page 3-12	
4		Adding objects without numbers	Add objects without numbers.  =  +  =  =	The learner; - adds the objects - counts the objects - recites the numbers - draws the objects	demonstration question & answer	adding counting reciting drawing	problem solving confidence responding to questions	real objects chairs sticks boxes	Kindergarten Maths book 4 page 5	
5		Adding objects with numbers	Add objects with numbers  = 4 + 3 = 7  = 2 + 1 =	The learner; - adds objects - adds the numbers - recites the numbers. - draws the objects	explanation demonstration question & answer	adding reciting drawing	problem solving logical & critical thinking confidence	books counter cards	Kindergarten Maths book 4 page 5	







8	1	Counting things and numbers	Adding numbers 0-5 2 + 2 = 4 2 + 1 = 3 + 2 =	The learner; - adds numbers 0-5 - recites the numbers - counts the balls on the numbers.	explanation demonstration question & answer	adding reciting counting	problem solving evaluating facts taking a decision	real objects bottles tins cards	Kindergarten Maths book 4 page 5
	2		Add numbers 6-10 2 + 4 = 6 4 + 3 = 5 + 5 =	The learner; - adds numbers 6-10 - recites the numbers - counts the balls on the numbers.	explanation demonstration question & answer	adding reciting counting	problem solving responding to question analyzing statements	real objects counter	My second 2 sum book page 15
	3	Word problem	Solve the given word problem 2 and 1 equals 3 3 plus 2 make 5 add 2 equals ...	The learner; - solve the given word problem - reads the word - recites the numbers - counts the balls.	explanation demonstration question & answer	solving reading reciting counting	problem solving critical & logical thinking	number cards words cards real objects	Teachers collection
	4	Word problem	Solve the word problem 4 plus 2 make 6 3 add 3 equals 6 plus 1 make	The learner; - solves the word problem. - reads the words. - recites the numbers - counts the balls.	explanation demonstration question & answer	solving reading reciting counting	critical thinking responding to questions analyzing statement	word cards number cards real objects	Teachers collection
	5	Telling more equal and less quantities	Forming groups  A group of chairs	The learner; - forms groups - names the groups - counts the objects - sorts the objects	explanation observation question & answer demonstration	forming naming counting sorting	effective communication accuracy fluency confidence	real objects like books pencils chairs	Kindergarten two Maths book 1 page 21

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				 A group of books.							
9	1	Telling more equal and less quantities	Definition of a set and naming sets.	<p>A set is a group of things or objects. Name the sets.</p> <p> A set of 4 sticks.</p> <p> A set of 2 girls.</p>	The learner; - defines a set. - names the sets. - draws the sets.	explanation observation question & answer	defining naming drawing	effective communication fluency confidence accuracy	real objects like sticks, girls, boys, girls etc..	Kindergarten two Maths book 1 page 21	
	2		Drawing sets	<p>Draw the sets. A set of 3 books. </p> <p>A set of 2 boys. </p> <p>A set of 4 cups. </p>	The learner; - draws the sets. - names the sets - counts the objects in the set.	explanation demonstration question & answer	drawing naming counting	critical thinking analyzing statements	real objects	Kindergarten two Maths book 1 page 21	
	3		Joining sets	<p>Join the given sets.</p> <p> $\triangle \triangle + \triangle \triangle = \triangle \triangle \triangle \triangle$</p> <p> $\cup \cup + \cup \cup = \cup \cup \cup \cup$</p> <p> $\circ \circ + \circ \circ = \circ \circ \circ \circ$</p>	The learner; - joins the given sets. - counts the objects in the given sets.	explanation demonstration	joining sets counting	problem solving finding different things making choice	real objects	Kindergarten two Maths book 1 page 21	
	4		Matching sets orally	<p>Match the sets</p> <p></p>	The learner; - matches the sets. - observes the objects in the sets.	explanation observation demonstration	matching observing	critical thinking responding to questions analyzing statements	pencils chairs table cups	Kindergarten two Maths book 1 page 21	

Learning outcome v: Understanding and using concept of time.										
	5	Following time intervals	Telling time of the day	Tellign specific time for events orally. Come to school 8:00 o'clock Break time – 10:00 o'clock Lunch time 1:00 o'clock Going back home 1:00 o'clock	The learner; - tells specific time for events.	explanation demonstration	telling time	critical thinking responding to questions	clock	Teachers collection
10	1	Following time intervals	Talking about and drawing things that tell us time	Draw things that tell us time and aname them.  sun T.V phone bell clock radio	The learner; - draws things that tell us time. - names the things that tell us time.	explanation demonstration guided discovery	drawing naming	problem solving critical thinking	real objects	Teachers collection
Learning outcome vii: Recognising, describing and using money.										
	2	Identifying types of money features	Types of money	Observing and identifying type sof money (coins) e.g. sh 50 sh 100 sh 200 sh 500	The learner; - observes the types of money. - identifies the types of money.	observation explanation guided discussion	observin g identifiy ing	effective communicat ion confidence audibility love	money coins	At home with Maths page 24
	3		Types of money	Observe and identify type sof money (notes) e.g. sh 1000 sh 2000 sh 5000 sh 10,00	The learner; - observes the types of money. - identifies the money shown	observation demonstrati on explanation	observin g & identifiy ing types of money.	effective communicat ion love confidence	money notes	Mk Themati c Maths Practice bk 1 page 78
	4		Shopping	Play a shopping game using words like change, How much?	The learner; - buys the items in shop.	observation demonstrati on	buying selling	effective communicat ion	shop	Mk Themati c Maths

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			 sh 200  sh 500  sh 300	- sells the items in a shop.			co-operation sharing		Practice bk 1 page 78	
5		Shopping	Playign a shopping game using money.  500  300  50	The learenr; - buys the items in the shop. - sells the iems in the shop.	observation demonstrati on	buying selling	co-operation sharing	shop		