KG3 Math Learning Outcomes

Key Learning Outcomes	Curriculum level
Numbers	
Domain: Counting and Cardinality	
Count to tell the number of objects	
L1 Knows how to define what a number represent.	
L2 Can count object and match to the numeral name verbally	
L 3 know how to show how much a number is (bigger/smaller)	
L 4 Can count things one at a time and in the right order	
L 5 Can state the last number named in a count as the total number of object	
L 6 Knows the arrangement of a set doesn't affect the count (straight, line, or mixed up)	
L 7 Knows more than larger, greater than	
L 8 Can say how many there are in a group when one more is added without recounting	
L 9 Can count objects to 20 in various groups	
L 10 Can read and write numbers from 0-20	
L 11 Can read and write cardinal & ordinal numbers 0 -10	
L 12 Can count to determine number of objects in a set	
Compare Numbers	
L 13 knows the meaning of the vocabulary, greater than, less than, equal to, matching and counting.	
L 14 Count forward beginning from a given number within the known sequence (instead of begin at 1)	
L 15 knows how to match object of one set to an object in another set.	
L 16 Can compare the number of object in two groups with up to 10 by using the vocabulary (more, less, greater than, less than, equal to.)	
L 17 Knows given any number what value is one number larger.	
L 18 Can compare two numerals between 1 and 10 using the vocabulary greater than, less than, equal to	
L 19 Can use more, less, greater than, less than, equal to, in real life giving the reasons.	
L 20 Knows the number count in order	
L 21 Can count to 100 by 1's and 10's	
L 22 Can count forward from a given number	
L 23 Can read, write numerals 0-20 counting the group of objects	
L 24 Can write number words 0-10 representing the numeral	
L 25 Can write number words and numerals to represent quantities in real life situations	
Domain: Operations and Algebraic Thinking	
Understand addition as putting together and adding to, and understand subtraction	
L 26 Find a number that makes 10 forms any number. 1-10 using objects and drawing.	
L 27 Can break apart numbers to 10 using object & drawings.	
L 28 Knows the meanings of math symbols, plus sign, minus sign and equal sign	
L 29 Can show addition with objects, my fingers, mental images, drawings, sounds, by acting out situations, verbal.	
L 30 Can show subtraction with objects, my fingers, mental images, drawings, sounds, by acting out situations, verbal.	
L 31 Can add numbers that add up to 5 using efficient strategies	
L 32 Can subtract numbers with in 5 using efficient strategies	
L 33 Can, given a set of objects or pictures from 11-19, create a set of 10 ones and some more ones and write the corresponding numeral (compose)	

L 34 Can, given a numeral from 11-19, use objects or draw a picture to show a set of 10 ones and some more ones (decompose)	
Problem Solving : L 35 Can model addition word problems using objects, drawings and equations with unknown numbers in different positions	
L 36 Can solve addition and subtraction word problems using objects, drawings, and equations	

Data Handling

Domain: Measurement and Data

Understand Chance	
L 1 Uses informal language of chance (e.g.; will, will not , might , might not) in everyday circumstances	
L 2 can explain that the outcome of a chance event is uncertain. (e.g.; when tossup the dice, it is difficult to predict the outcome of the dice).	
L 3 Can identify possible outcome of familiar event in the lives. (e.g.; I will eat my lunch today and often school I might have an ice-cream).	
Collect and process data	
L 4 Can pose questions to find out about someone, objects or pictures. (e.g. Model asking questions such as "what is your favorite color?, what is your favorite fruit?, what did you have for breakfast?"	
L 5 Can collect data by counting things or observing	
L 6 Use variety of ways to record data (draws, write numerals, one-to-one correspondence.	
L 7 Know that objects are alike and different with attributes	
L 8 Can sort & classify everyday objects by different attributes such as size, shape, color.	
Represent, summarize and interpret data	
L 9Represents data in different ways (eg., numbers, lists, pictographs, pictures)	
L 10Displays data in a variety of formats using real objects or pictures (drawings, organized lists)	
L 11 Reads, interprets and describes (fewer, greater than, less than.) simple data collection displays (the data shows five people like oranges & eight like apples. So there are more apple boxes colored.)	

Patterns and Functions

Domain: Number and Operations   Base Ten

Expressing generality	
L 1Identify and continue patterns.	
L 2 Describes simple patterns	
L 3 Represents simple repeating patterns using numbers	
L 4 Extends and creates simple patterns.	

Measurement

Domain: Measurement & Data

Cluster: Describe and Compare measurable attributes	
L 1 Knows what long, short, heavy and tight mean.	
L 2 Can, given object, describe its measurable attributes (length, higher, weight, capacity.)	

L 3 Can determine and compare two real objects with attributes. (Longer, shorter, heavier, empty, full, hotter, colder.	
L 4 Can use non-standard units to measure length, mass & capacity. (Paperclips, cubes, blocks, cups, cans.)	
Problem Solving :	
L 5 Can use non-standard units to measure length, mass & capacity. (Paperclips, cubes, blocks, cups, cans) to solve problems in real life situation involving length, math, and capacity.	
Cluster : Order & Sequence the Events	
L 6 Can recognize some of the events in daily routines (e.g.; get dressed, brush teeth, eat breakfast, wake-up)	
L 7 Can order & compare familiar events in typical sequence (wake-up, brush teeth, get dressed, eat breakfast, go to school.)	
L 8 Can identify few event in the daily routine describe them and sequence them (e.g.; events occurred at school or at home.)	
L 9 Can use regular occurring things as cues to the time of the year (eg; we are all wearing sweater today so it is probably winter.)	
L 10 Can identify the name & order the month & the year & seasons that relate to them.	
L 11 Can use calendars to identify specific information about days & dates (birthday).	
Shape and Space	
Domain: Geometry	
Identify and Describe shapes	
L 1 Knows position words, above, below, inside, in front of, behind, next to, up, down.	
L 2 Can describe the positions of the object (using words such as above, below, beside, in front of, behind, next to.)	
Cluster: Analyze Compare, Create, and Compose shapes.	
L 3 Can name 2D & 3D shapes correctly.	
L 4 Can describe and compare 2D and 3 D shapes by sides and vertices.	
L 5 Can sort and compare 3 D shapes with attributes.	
L 6 Knows shapes in the world around me.	
L 7 Can draw shapes in my environment. (spatial reasoning)	
L 8 Can build shapes from materials in my environment and can describe the position of the material. (spatial reasoning)	

KG3 English Learning Outcomes

Key Learning Outcomes	Curriculum level
Strand : Oral Language – listening and speaking	
L1: Following agree –upon for discussions (e.g. , listening to others and taking turns speaking about the topics and text under discussion.	
L2: Continue a conversation through multiple exchanges	
L3: Understand the text read aloud information presented orally or through media	
L4: Ask and answers questions about key details in a text read aloud or information presented orally or through other media (Stand : visual Language viewing and Presenting.	
L5: Ask and answer questions in order to seek help, get information, or clarify something that is not understood.	
L6: Add drawings or other visual displays to descriptions as desired to provide additional detail.	
L7: Speak audibly and express thoughts, feelings, and ideas clearly.	
L8: Choose a topic to speak about	
Strand : Visual Language – Viewing and Presenting	
L1: Use words and phrases acquired through conversations, reading and being read to, and responding to texts	
L21: Actively engage in group reading activities with purpose and understanding.	
L3: Describe familiar people, places, things, and events and, with prompting and support, provide additional detail	
L4: Be able to use adjectives to describe the topic	
L5: Use magazine pictures, drawings, or clip art to make posters to support what they are saying	
Strand :Written Language – Reading	
L1: Identify the front cover, back cover, and title page of a book.	
L2: Ask and answer questions about details in a text	
L3: Retell familiar stories, including key details	
L4: Describe the connection between two individuals, events, ideas, or pieces of information in a text	
L5: Identify characters, settings, and major events in a story	
L6: Ask and answer questions about unknown words in a text	
L7: Recognize common types of texts (e.g. storybooks, fantasy, realistic text)	
L8: Name the author and illustrator of a text and define the role of	

each in presenting the ideas or information in a text	
L9: Describe the relationship between illustrations and the story in which they appear (e.g., what moment in a story an illustration depicts)	
L10: Identify the reasons an author gives to support points in a text.	
L11: Compare and contrast the adventures and experiences of characters in familiar stories	
L12: Follow words from left to right, top to bottom, and page by page.	
L13: Recognize that spoken words are represented in written language by specific sequences of letters.	
L14: Understand that words are separated by spaces in print.	
L15: Recognize and name all upper- and lowercase letters of the alphabet.	
L16: Recognize and reproduce rhyming words.	
L17: Count, pronounce, blend, and segment syllables in spoken words.	
L18: Blend and segment onsets and rimes of single- syllable spoken words.	
L19: Blend two to three phonemes into recognizable words.	
L20: Isolate and pronounce the initial, medial vowel and final sounds (phonemes) in three-phoneme (consonant-vowel-consonant or CVC) words.	
L21: Add or substitute individual sounds (phonemes) in simple, one syllable words to make new words	
Strand :Written Language - Writing	
L1: Understand that ideas can be conveyed through writing, drawing pictures or telling	
L2: Understand that letters and the sounds that they make can be written	
L3: Understand that a title is the name of a book	
L4: Give the name of the book when writing about that book	
L5: Choose a topic to write about	
L6: Use drawings about the topic to support the written ideas	
L7: Tell what they are writing about	
L8: Use details about their topic in their writing	
L9: Draw a picture that tells a story	
L10: Be able to talk about what has been drawn	
L11: Write sentences with details	
L12: Know that you can add sizes, colors, and other adjectives to writing to strengthen it	
L13: Know that an opinion is not a fact	
L14: Know that opinions can be express using terms such as love, like, dislike, hate, etc	

L15: Know that exploring can be comparing and contrasting the story, drawings, concepts the author presents in different books	
L16: Know how to copy a title	