

JSS 1 – Term 1					
Week	Theme	Topic	LP No.	Lesson Title	Learning outcomes <i>Pupils will be able to:</i>
1	Number and Numeration	count from any number in multiples of a given number, including whole numbers, and powers of 10 identify, read, write, compare and order whole numbers, up to 100,000,000 in numerals and in words, and locate them on a number line		Numbers up to 1,000	Identify, compare and order numbers up to 1,000 Locate numbers up to 1,000 on a number line
				Numbers up to 100,000	Identify, compare and order numbers up to 100,000 Locate numbers up to 100,000 on a number line
				Numbers up to 100,000,000	Identify, compare and numbers up to 100,000,000 Locate numbers up to 100,000,000 on a number line
				Counting patterns	Count in multiples of a given number
				Counting by powers of 10	Identify powers of ten Count by powers of ten
2	Number and Numeration	use the concept and vocabulary of factors, multiples, prime and composite numbers (review); find prime factors of whole numbers	M-07-001	Concept and Vocabulary of Factors	Identify factors of given numbers.
			M-07-002	Multiples of Whole Numbers	Identify multiples of given numbers
				Prime and Composite Numbers	Identify the difference between prime and composite numbers.
				Prime Factors of Whole Numbers up to 20	Find prime factors of whole numbers between 0 and 20.
			M-07-003	Prime Factors of Whole Numbers Greater than 20	Find prime factors of given numbers between 20 and 50.
3	Number and Numeration	find highest common factor HCF, lowest common multiple LCM (review)	M-07-004	Common Factors	Identify common factors of given numbers.
			M-07-005	Highest Common Factors (HCF)	Identify highest common (H.C.F) of given

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Week	Theme	Topic	LP No.	Lesson Title	Learning outcomes <i>Pupils will be able to:</i>
		find squares and cubes by prime factorization			numbers.
			M-07-006	Common Multiples	Identify common multiples of given numbers.
			M-07-007	Lowest Common Multiples (LCM).	Identify lowest common multiples of given numbers.
			M-07-008	Squares of Whole Numbers	Find squares of whole numbers up to 10.
4	Number and Numeration	INDEX NOTATION investigate index notation for positive whole numbers; find and use the rules for multiplying and dividing powers a number	M-07-009	Cubes of Whole Numbers	Find cubes of whole numbers up to 10.
			M-07-010	Higher Powers of Whole Numbers	Find higher powers (greater than 3) of whole numbers
			M-07-011	Multiplying two Indices	Simplify multiplication of two indices less than 10.
			M-07-012	Dividing two Indices	Simplify division of two indices less than 10.
			M-07-013	Multiplication and Division of Indices	Simplify multiplication and division of indices less than 10.
5	Number and Numeration	FRACTIONS identify, read and write fractions; compare and order fractions in numerals and in words, and locate them on a number line	M-07-014	Introduction to Fractions	Recognize and name fractional parts of a whole.
				Fractions with the Same Denominator.	Compare and order fractions with the same denominator.
			M-07-015	Fractions with Different Denominators.	Compare and order fractions with different denominators.
				Fractions on a Number Line	Locate fractions on a number line.
			M-07-016	Adding Fractions with the Same Denominator.	Add fractions with the same denominator.
6	Number and Numeration	review equivalent fractions and use to compare and order fractions, and to reduce fractions to their lowest	M-07-017	Adding Fractions with Different Denominators	Add fractions with different denominators.
			M-07-018	Subtracting Fractions with the Same Denominators	Subtract Fractions with the same denominators.

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		terms;	M-07-019	Subtracting Fractions with different Denominators	Subtract Fractions with different denominators.
			M-07-020	Multiplication of Fractions	Multiply two or more fractions.
			M-07-021	Division of Fractions	Divide two fractions.
7	Everyday Arithmetic	apply <i>everyday arithmetic</i> to calculate with fractions (see list)		Story problems on addition of fractions	Solve story problems on addition of fractions.
				Story problems on subtraction of fractions.	Solve story problems on subtraction of fractions.
				Story problems on multiplication of fractions.	Solve story problems on multiplication of fractions.
				Story problems on division of fractions.	Solve story problems on division of fractions.
			M-07-022	Story problems on the basic operations on fractions.	Solve story problems on addition, subtraction, multiplication and division of fractions.
8	Number and Numeration	DECIMALS identify, read and write decimals; compare and order decimals in numerals and in words, and locate them on a number line; identify and calculate equivalences between fractions and decimals	M-07-023	Place value for decimals.	Identify, read and write decimals.
				Decimals in figures and words.	Write decimals in figures and words.
				Decimals on the number line.	Locate given decimals on a number line Compare and order decimals
			M-07-024	Decimals to fractions	Express decimals as fractions
			M-07-025	Fractions to decimals	Express fractions as decimals
9	Number and Numeration	round whole numbers and decimals to a required degree of accuracy including number of decimal places;	M-07-026	Rounding off decimal numbers to whole numbers.	Round decimal numbers to the nearest whole number
			M-07-027	Rounding off decimal numbers to stated decimal places.	Round decimal numbers to a given number of decimal places

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Week	Theme	Topic	LP No.	Lesson Title	Learning outcomes <i>Pupils will be able to:</i>
		multiply and divide whole numbers and decimals by powers of 10	M-07-028	Rounding off whole numbers and decimals to the nearest 10, 100 and 1000	Round whole numbers and decimals to the nearest 10, 100 and 1000
	M-07-029		Multiplying whole numbers and decimals by powers of 10	Multiply whole numbers and decimals by powers of 10	
	M-07-030		Dividing whole numbers and decimals by powers of 10	Divide whole numbers and decimals by powers of 10	
10	Everyday Arithmetic	apply <i>everyday arithmetic</i> to calculate with whole numbers and decimals (see list)	M-07-031	Review of the four operations with whole numbers	Add, subtract, multiply and divide whole numbers
			M-07-032	Review of the four operations with decimals	Add, subtract, multiply and divide decimals
			M-07-033	Order of operations	Carry out calculations using the correct order of operations (BODMAS)
			M-07-034	Estimation	Round numbers to find rough estimates before calculating Check answers by calculating
			M-07-035	Story problems with whole numbers and decimals	Estimate answers to story problems with whole numbers and decimals before solving Solve story problems with whole numbers and decimals Give answers to specified degree of accuracy
11	Number and Numeration	PERCENTAGES Introduce percent (as parts of 100). identify and calculate equivalences between	M-07-036	Percentages	Introduce percentages as parts of 100
			M-07-037	Percentages to fractions and decimals	Express percentages as fractions and decimals
			M-07-038	Fractions and decimals to percentages	Express fractions and decimals as percentages

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Week	Theme	Topic	LP No.	Lesson Title	Learning outcomes <i>Pupils will be able to:</i>
		fractions, decimals and percentages	M-07-039	Identifying the percentage of a given quantity	Calculate the given percentage of a given quantity
			M-07-040	Expressing one quantity as a percentage of another	Calculate one quantity as a percentage of another
12	Everyday Arithmetic	solve problems with percentages	M-07-041	Percentage increase	Calculate the percentage increase, given two numbers
		<ul style="list-style-type: none"> <li>calculate the percentage of a quantity</li> <li>express one quantity as a percentage of another</li> </ul>	M-07-042	Percentage decrease	Calculate the percentage decrease, given two numbers
		solve multi-step story problems with percentages	M-07-043	Applying percentage increase and decrease	Calculate a number given the percentage increase or decrease upon a given number
			M-07-044	Applying percentages to problems with money	Solve problems with percentages involving money
			M-07-045	Story problems with percentages	Solve story problems with percentages
13		REVISION			
14		EXAMS			

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Week	Theme	Topic	LP No.	Lesson Title	Learning outcomes <i>Pupils will be able to:</i>
1	Number and Numeration	RATIO extend the definition of ratio to percentages and decimals comparing two or more quantities	M-07-046	Introduction to ratio	Identify that ratio compares two quantities by division Use ratio language to compare quantities of things in their surroundings
			M-07-047	Ratio of a whole	Identify that ratio can compare part of something to the whole Use ratio language to compare parts to the whole in their surroundings
			M-07-048	Ratios and fractions	Express ratios as fractions
			M-07-049	Ratios and percentages	Identify that a percent is a ratio that compares a number to 100 Express ratios as percentages
			M-07-050	Ratios and decimals	Express ratios as decimals
2	Number and Numeration	solve problems involving ratio and express answers in lowest terms	M-07-051	Simplification of Ratios	Identify equivalent ratios Simplify a ratio to its lowest terms
			M-07-052	Ratio problems with two terms	Share a given quantity among a given ratio with two terms ( $m:n$ )
			M-07-053	Ratio problems with three or more terms	Share quantities among given ratios with three or more terms ( $m:n:p$ )
			M-07-054	Relating Ratio to measurement	Solve ratio problems involving measurement
			M-07-055	Ratio story problems	Solve story problems involving ratios
3	Number and Numeration	INTEGERS investigate everyday situations that use integers (positive and negative whole numbers and zero);	M-07-056	Introduction to Integers	Recognize and count positive and negative integers, and zero
			M-07-057	Positive and Negative Integers	Locate positive and negative integers on a number line
			M-07-058	Comparing integers	Compare and order positive and

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Week	Theme	Topic	LP No.	Lesson Title	Learning outcomes <i>Pupils will be able to:</i>
		compare and order integers, and locate them on a number line			negative integers
		use addition and subtraction facts for integers	M-07-059	Addition of integers using a number line	Add any two positive or negative integers using a number line
		use multiplication and division facts for integers	M-07-060	Addition of integers	Apply rules for adding integers to any two positive or negative integers
4	Number and Numeration	INTEGERS CONT. use multiplication and division facts for integers	M-07-061	Subtraction of integers	Subtract any two positive or negative integers
			M-07-062	Multiplication of integers using a number line	Multiply positive and negative integers using a number line
			M-07-063	Multiplication of integers	Apply rules for multiplying integers to multiply any two positive or negative integers
			M-07-064	Division of Integers	Divide any two positive or negative integers
			M-07-065	Problem solving on integers	Solve story problems involving positive and negative integers Apply the correct order of operations (BODMAS) to problems involving positive and negative integers
5	Everyday Arithmetic	EVERYDAY ARITHMETIC apply <i>everyday arithmetic</i> to calculate with whole numbers and percent, including simple wage and tax calculations (see list)	M-07-066	Simple proportion	Solve simple proportion problems
			M-07-067	Simple interest	Solve problems involving simple interest
			M-07-068	Discount	Calculate discount on a given sum of money
			M-07-069	Commission	Calculate commission on a given sum of money
			M-07-070	Tax	Calculate tax on a given sum of money

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<b>Week</b>	<b>Theme</b>	<b>Topic</b>	<b>LP No.</b>	<b>Lesson Title</b>	<b>Learning outcomes</b> <i>Pupils will be able to:</i>
6	Measurement and Estimation	MEASUREMENT investigate the meaning of mass and volume convert between different units (within the same system) of measurement for length, area, mass and volume / capacity apply everyday arithmetic to calculate with measurements (see list)	M-07-071	Units of measurement	Identify the units of measurement for length, mass, and volume Compare mass and volume
			M-07-072	Conversion of length	Convert between units of length within the same system
			M-07-073	Conversion of mass	Convert between units of mass within the same system
			M-07-074	Conversion of volume	Convert between units of volume within the same system
			M-07-075	Review of plane shapes	Identify and label the parts of rectangles, squares and triangles
7	Measurement and Estimation	PERIMETER and AREA Identify and label the parts of rectangles, squares, and triangles recall and use the formulas for perimeter and area of squares, rectangles and triangles; solve multi-step story problems involving perimeter and area of parallelograms and triangles	M-07-076	Perimeter	Find the perimeter of rectangles, triangles and squares
			M-07-077	Area of rectangles and squares	Calculate the area of rectangles and squares using the formulae
			M-07-078	Area of triangles	Calculate the area of triangles using the formula
			M-07-079	Perimeter story problems	Solve story problems involving the perimeter of plane shapes
			M-07-080	Area story problems	Solve story problems involving the area of plane shapes
8	Measurement and Estimation	label the parts of a circle and identify that the diameter is twice the radius use the formulas for circumference and area of	M-07-081	Circles	Identify and label the parts of circle Identify that the diameter is twice the radius
			M-07-082	Circumference of circles	Calculate the circumference of a circle using the formula



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Week	Theme	Topic	LP No.	Lesson Title	Learning outcomes <i>Pupils will be able to:</i>
		circles; solve multi-step story problems involving circumference and area of circles	M-07-083	Area of circles	Calculate the area of a circle using the formula
	M-07-084		Problem solving with circles	Solve multi-step problems involving circle measurements, including radius, diameter, circumference, and area	
	M-07-085		Circle story problems	Solve story problems involving the circumference and area of circles	
9	Measurement and Estimation	VOLUME Investigate the concept of volume of solids use the formula for volume of rectangular prisms (cubes and cuboids); solve multi-step story problems involving volume	M-07-086	Volume of solids	Identify the general formula for volume of prisms and cylinders as cross-section multiplied by height Identify and interpret measurements for volume (units cubed)
			M-07-087	Volume of cubes	Calculate the volume of a cube using the formula
			M-07-088	Volume of cuboids	Calculate the volume of a cuboid (rectangular prism) using the formula
			M-07-089	Problem solving with volume	Solve multi-step problems involving length, area, and volume measurements
			M-07-090	Volume story problems	Solve story problems involving the volume of cubes and cuboids
10	Geometry	ANGLES Introduce types of angles (acute, obtuse, right) and basic angle measurement/understanding of degrees; find unknown angles in composite figures involving triangles, squares and	M-07-091	Introduction to angles	Identify and compare types of angles (acute, obtuse, right angle) Identify degrees as angle measurement
			M-07-092	Measurement of angles	Estimate the measure of a given angle Measure given angles (acute, obtuse, right angle) using a protractor
			M-07-093	Finding unknown angles in rectangles and squares	Identify that each angle of a rectangle or square measures 90°

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		rectangles (review)			Find unknown angles in rectangles and squares
			M-07-094	Finding unknown angles in triangles	Identify that the sum of the angles of a triangle is $180^\circ$ Find unknown angles in triangles
			M-07-095	Finding unknown angles in composite shapes	Identify unknown angles in composite shapes involving rectangles, squares, and triangles
11	Geometry	Identify and solve problems with supplementary and complementary angles; investigate angles formed by parallel and intersecting lines, and use results to find unknown angles	M-07-096	Introduction to supplementary and complementary angles	Identify and compare complementary and supplementary angles
			M-07-097	Complementary angles	Find an unknown angle given two complementary angles
			M-07-098	Supplementary angles	Find an unknown angle given two supplementary angles
			M-07-099	Intersecting lines	Identify that intersecting lines make supplementary angles Find unknown angles formed by two intersecting lines
			M-07-100	Transversal of parallel lines	Identify angles that are supplementary and angles that are equal when a transversal cuts two parallel lines Find unknown angles formed by parallel lines and a transversal line
12	Geometry	CONSTRUCTION use drawing tools to construct triangles and circles use drawing tools to construct parallel and perpendicular	M-07-101	Construction of circles	Use a pair of compasses to construct a circle with a given radius
			M-07-102	Construction of triangles	Use a pair of compasses to construct a triangle given the lengths of its 3 sides
			M-07-103	Construction of parallel lines	Use a pair of compasses to construct

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<b>Week</b>	<b>Theme</b>	<b>Topic</b>	<b>LP No.</b>	<b>Lesson Title</b>	<b>Learning outcomes</b> <i>Pupils will be able to:</i>
		lines			parallel lines
			M-07-104	Construction of perpendicular lines	Use a pair of compasses to construct perpendicular lines
			M-07-105	Construction Practice	Construct circles, triangles, and parallel and perpendicular lines
13		REVISION			
14		EXAMS			

**JSS 1 – Term 3**

Week	Theme	Topic	LP No.	Lesson Title	Learning outcomes <i>Pupils will be able to:</i>
1	Algebra	<p>ALGEBRA 3 days</p> <p>identify, describe and complete simple arithmetic patterns; determine the rule in the number pattern and use it to predict for unknown values</p> <p>2 days</p> <p>use letters as variables to represent numbers and identify their values;</p>	M-07-106	Identifying number patterns	Identify and describe an arithmetic pattern from a list of numbers
			M-07-107	Rules in number patterns	Identify the rule in a given arithmetic pattern Create a basic arithmetic pattern given a rule
			M-07-108	Completing number patterns	Provide the next terms of a number pattern Provide missing terms of a number pattern
			M-07-109	Variables	Identify variables as unknown values Identify the variable in a given equation and find its value
			M-07-110	Solving for a variable	Find the value of a variable in simple algebraic expressions involving addition and subtraction
2	Algebra	<p>identify coefficients and variables (for example, <math>2x</math>) a number multiplied by an unknown value</p> <p>identify and understand how to combine like terms</p> <p>simplify simple algebraic expressions</p>	M-07-111	Coefficients	Identify the coefficient in an expression as a number multiplied by a variable, or unknown value
			M-07-112	Solving for a variable with a coefficient	Find the value of a variable in simple algebraic expressions involving multiplication
			M-07-113	Like terms	Identify like terms as those with the same variable and power
			M-07-114	Combining like terms	Group and combine like terms in a given algebraic expression
			M-07-115	Simplifying algebraic expressions	Simplify simple algebraic expressions

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Week	Theme	Topic	LP No.	Lesson Title	Learning outcomes <i>Pupils will be able to:</i>
3	Algebra	Factorise simple algebraic expressions construct and solve simple linear equations in one variable	M-07-116	Multiplying algebraic expressions	Multiply a constant by an algebraic expression
			M-07-117	Dividing algebraic expressions	Divide algebraic expressions
			M-07-118	Factorization	Identify common factors in an algebraic expression Divide common factors from an algebraic expression
			M-07-119	Introduction to linear equations	Identify and solve linear equations in one variable
			M-07-120	Solving linear equations	Solve linear equations in one variable
4	Algebra	read, write and plot co-ordinates in all four quadrants of the Cartesian plane relate the x- and y-axis to variables in equations, identify that we use the Cartesian plane to graph equations (no need to do graphing now)	M-07-121	Introduction to the Cartesian plane	Draw a Cartesian plane Identify the x- and y-axes and label them with positive and negative values Identify that this x and y are often variables in linear equations, and the Cartesian plane is used to graph equations
			M-07-122	Identifying points on the Cartesian plane	Identify points in each quadrant of a Cartesian plane and write them in the form $(x, y)$
			M-07-123	Plotting points in the first quadrant of the Cartesian plane	Plot given points in the first quadrant of the Cartesian plane
			M-07-124	Plotting points in all quadrants of the Cartesian plane	Plot given points in any quadrant of the Cartesian plane
			M-07-125	Practice with the Cartesian plane	Draw or identify any given point on the Cartesian plane
5	Statistics	STATISTICS collect, organise and display	M-07-126	Data collection	Collect data from class members and display it with tally marks and

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Week	Theme	Topic	LP No.	Lesson Title	Learning outcomes <i>Pupils will be able to:</i>
		discrete and continuous data using pictograms, lists, tables, bar charts and line graphs			pictograms
			M-07-127	Lists and tables	Organise and display collected data in a list and a table
			M-07-128	Creating bar charts	Display collected data in a bar chart
			M-07-129	Interpreting bar charts	Make comparisons and draw conclusions from bar charts
			M-07-130	Creating line graphs	Display collected data in a line graph
6	Statistics	extract and interpret discrete and continuous data using pictograms, lists, tables, bar charts and line graphs; extract and interpret discrete data from pie charts; solve multi-step story problems involving data	M-07-131	Interpreting line graphs	Make comparisons and draw conclusions from line graphs
			M-07-132	Pie chart	Interpret information from a pie chart
			M-07-133	Comparing graphs and charts	Identify that bar charts and line graphs are used to compare different amounts and pie charts are used to compare parts of the whole Create an appropriate chart for a set of data
			M-07-134	Community survey: collecting data	Collect information about the community and organize it in a table
			M-07-135	Community survey: displaying data	Create graphs and charts to display information about the community
7	Statistics	calculate the mode, median, mean and range of a given set of discrete and continuous data (review), presented in various formats (list, chart)	M-07-136	Mean and median	Calculate the mean and median of a list of data generated by the class Interpret mean and median
			M-07-137	Mode and range	Calculate the mode and range of a list of data generated by the class Interpret mode and range
			M-07-138	Statistical calculations from a list	Calculate the mean, median, mode, and range of data from a list

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Week	Theme	Topic	LP No.	Lesson Title	Learning outcomes <i>Pupils will be able to:</i>
			M-07-139	Statistical calculations from a bar chart	Calculate the mean, median, mode, and range of data from a bar chart
			M-07-140	Statistics story problems	Solve story problems involving mean, median, mode, and range
8	Probability	PROBABILITY use the language of probability to state the chance of events occurring in everyday life; demonstrate an understanding of probability, including conducting simple probability experiments	M-07-141	Introduction to probability	Identify that probability describes the chance of something happening Discuss the probability of an event happening in words
			M-07-142	Probability experiments	Conduct simple probability experiments Use probability terms such as 'experiment,' 'outcome' and 'event'
			M-07-143	Certain and uncertain probability	Identify that a probability of 1 means that an event is certain, and a probability of 0 means that an event is impossible
			M-07-144	Likely and unlikely events	Compare how likely different events are and rank them from unlikely to likely
			M-07-145	The language of probability	Use probability vocabulary in everyday statements
9	Probability	solve simple problems involving the probability of a single event	M-07-146	Expressing probability as a fraction	Express the probability of an event happening as a fraction
			M-07-147	Probability fraction problems	Solve simple probability problems with fractions
			M-07-148	Probability as a percent	Interpret probability statements involving percent
			M-07-149	Solving probability story problems	Solve story problems involving the probability of an event happening
			M-07-150	Writing probability story problems	Write story problems involving the probability of an event happening

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10		REVISION			
13		EXAMS			



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