

JSS 3 – Term 1					
Week		Topic	LP No.	Lesson Title	Learning outcomes
1	Number and Numeration	SETS use set language and notation to describe collections of distinct object	M-09-001	Sorting Objects	Collect and sort objects into groups Describe groups of objects
			M-09-002	Introduction to Sets	Identify a set as a well-defined collection of objects or ideas
			M-09-003	Sets in Real Life	Identify sets of objects or ideas from everyday life Sort objects or ideas from everyday life into sets
			M-09-004	Describe sets of objects	Describe sets using words Define the properties of a set of objects or ideas
			M-09-005	Write sets of numbers	List the numbers in a set using brackets Identify and interpret set notation
2	Number and Numeration	Sets, continued	M-09-006	Finite sets	Identify unit set as one with one element; empty set is one with no element.
			M-09-007	Infinite sets	Identify set of objects, things, ideas and numbers that are infinite.
			M-09-008	Unit and empty sets	Identify sets of objects, things or ideas and numbers that are infinite.
			M-09-009	Equal sets	Identify sets with the same elements.
			M-09-010	Equivalent sets	Identify that equivalent set have the same number of elements. Distinguish between equal and equivalent sets.
3	Number and Numeration	identify subsets of the set of real numbers; compare, order and locate real numbers on a number line	M-09-011	Introduction to Subsets	Identify subsets as a collection of objects within a set.
			M-09-012	Identifying subsets of the set of real numbers	Identify subsets of real numbers: natural numbers, whole numbers, rational numbers (integers, fractions and decimals)
			M-09-013	Comparing sets of real numbers	Compare sets of real numbers Use a Venn diagram to compare sets of real numbers
			M-09-014	Ordering sets of real numbers	Order sets of real numbers

**JSS 3 – Term 1**

Week		Topic	LP No.	Lesson Title	Learning outcomes
			M-09-015	Real numbers on a number line	Locate real numbers on a number line
4	Number and Numeration	ROMAN NUMERALS identify, read, write and count numbers up to 20 in the Roman numeral system; order and compare numbers up to 20; convert numbers up to 100 from base 10 to Roman numerals and vice versa	M-09-016	The Roman Numeral System	Identify the symbols used to show a Roman numeral Read, write and count numbers up to 20
			M-09-017	Converting between base 10 and Roman numerals	Convert numbers up to 100 from base 10 to Roman numerals and vice versa
		NUMBER BASES identify, read, write and count numbers in base 2; order and compare numbers in base 2; convert numbers from base 10 to base 2 and vice versa  <i>(this is pupils' first introduction to number bases)</i>	M-09-018	Introduction to base 2	Identify the numerals used to read and write in base 2 Count up to 20 in base 2 and work out the pattern of numbers
			M-09-019	Ordering and comparing numbers in base 2	List sets of base 2 numbers up to 20 in ascending order Compare base 2 numbers up to 20
			M-09-020	Converting between base 10 and base 2	Convert numbers up to 20 from base 10 to base 2 and vice versa
5	Everyday Arithmetic	OPERATIONS use efficient methods for the four operations to solve problems with real numbers including in multi-step word problems  <ul style="list-style-type: none"> <li>positive and negative integers</li> <li>fractions, decimals and percentages</li> </ul>		Integers	Solve problems with positive and negative integers
				Fractions	Solve problems with fractions
				Decimals	Solve problems with decimals
				Integers, fractions and decimals	Solve problems with a mixture of integers, fractions and decimals
				Units of measurement (review)	Recognise and convert between the units of length, mass, and volume/capacity

**JSS 3 – Term 1**

Week	Topic	LP No.	Lesson Title	Learning outcomes	
	<ul style="list-style-type: none"> <li>measurements – length, area, mass, capacity, volume,</li> </ul>				
6	Everyday Arithmetic	use efficient methods for the four operations to solve problems with real numbers including in multi-step word problems <ul style="list-style-type: none"> <li>ratio, and rates, express answers in lowest terms</li> </ul>	M-09-021	Capacity and mass	Differentiate between mass and capacity Solve problems with masses and problems with capacities
			M-09-022	Percentages of quantities	Find percentages of quantities
			M-09-023	Percentage increase and decrease	Increase and decrease quantities by a percentage Calculate the percentage increase or decrease, given two numbers
			M-09-024	Ratios	Review the forms of ratio: m:n and m/n Divide a number into a given ratio Solve ratio problems and simplify answers to lowest terms
			M-09-025	Rates	Identify that rate is a special ratio that compares two units of measurement Solve problems involving rate
7	Everyday Arithmetic	use efficient methods for the four operations to solve problems with real numbers including in multi-step word problems <ul style="list-style-type: none"> <li>direct and indirect proportion</li> <li>financial literacy</li> </ul>	M-09-026	Direct Proportions	Identify the symbol for proportionality ( $\propto$ ), the means and extremes Solve direct proportion problems
			M-09-027	Indirect Proportions	Identify the form of an indirectly proportional relationship ( $t \propto \frac{1}{d}$ ) Solve indirect proportion problems
			M-09-028	Proportion problem solving	Solve direct and indirect proportion problems
			M-09-029	Financial Literacy I	Solve problems with wages, salaries, and income tax
			M-09-030	Financial Literacy II	Solve simple interest problems

**JSS 3 – Term 1**

<b>Week</b>	<b>Topic</b>	<b>LP No.</b>	<b>Lesson Title</b>	<b>Learning outcomes</b>
<b>8</b>	<b>Number and Numeration</b>  <i>(review of JS2 but make more advanced – speak to JS2 team)</i>	M-09-031	Index notation and the laws of indices	Interpret numbers in index notation State the six laws of indices and solve simple examples for each
		M-09-032	Application of the laws of indices	Apply the six laws of indices to simplify problems
		M-09-033	Indices with negative powers	Identify that a number with a negative index can be rewritten as a fraction ( $a^{-n} = \frac{1}{a^n}$ ) Apply the laws for multiplying and dividing indices to those with positive and negative powers
		M-09-034	Indices with fractional powers	Identify that a number with a fractional power can be rewritten as a root ( $a^{\frac{1}{n}} = \sqrt[n]{a}$ ) Simplify simple indices with fractional powers
		M-09-035	Multiplying and dividing indices with fractional powers	Apply the laws for multiplying and dividing indices to those with positive and negative fractional powers
<b>9</b>	<b>Number and Numeration</b>  identify very large and very small numbers and introduce standard form (scientific) notation	M-09-036	Multiplying and dividing by powers of 10	Multiply and divide whole numbers and decimals by powers of 10
		M-09-037	Standard form of large numbers	Interpret and write large numbers in standard form (scientific notation): $a \times 10^n$ where $1 \leq a < 10$ and $n$ is an integer
		M-09-038	Standard form of small numbers	Interpret and write small numbers in standard form (scientific notation): $a \times 10^{-n}$ where $1 \leq a < 10$ and $n$ is an integer

**JSS 3 – Term 1**

Week		Topic	LP No.	Lesson Title	Learning outcomes
			M-09-039	Conversion to and from standard form	Convert from whole numbers and decimals to standard form and vice versa
			M-09-040	Multiplying and dividing small and large numbers	Do simple multiplication and division problems with whole numbers, decimals and fractions Give answers to problems in standard form
10	Geometry	<b>CONSTRUCTION</b> use drawing tools to construct triangles, parallel and perpendicular lines (review) use drawing tools to perform geometric constructions <ul style="list-style-type: none"> <li>• bisect a straight line segment</li> <li>• bisect a given angle</li> </ul>		Constructing triangles	Use a pair of compasses to construct a triangle given the lengths of its 3 sides
				Constructing parallel lines	Use a pair of compasses to construct parallel lines
				Constructing perpendicular lines	Use a pair of compasses to construct perpendicular lines
				Constructing a perpendicular bisector	Use a pair of compasses to construct a perpendicular bisection of a line
				Constructing an angle bisector	Use a pair of compasses to bisect an angle Use a protractor to measure a given angle and its bisected parts
11	Geometry	use drawing tools to perform geometric constructions <ul style="list-style-type: none"> <li>• construct angles of 45, 60 and 90</li> <li>• copy a given angle</li> </ul>		Constructing 90° and 45° angles	Use a pair of compasses to construct angles of 90° and 45°
				Constructing 60° angles	Use a pair of compasses to construct angles of 60°
				Constructing angles of 90°, 45° and 60°	Use a pair of compasses to construct angles of 90°, 45° and 60°
				Copying a given angle	Copy and construct given angles
				Construction practice	Construct triangles, parallel lines, and perpendicular lines Copy and construct given angles Bisect any angle
12	Geometry	name, draw and identify properties of triangles (review);	M-09-041	Right-angled triangles (review)	Identify the parts of a right-angled triangle Identify the properties of a right-angled triangle
			M-09-042	Introduction to	State the Pythagoras theorem

**JSS 3 – Term 1**

<b>Week</b>	<b>Topic</b>	<b>LP No.</b>	<b>Lesson Title</b>	<b>Learning outcomes</b>
	identify the sides and angles of a right-angled triangle; investigate Pythagoras' Theorem (include practical activities) use Pythagoras' Theorem to solve simple problems involving right angled triangles		Pythagoras' theorem	Identify that the formula $a^2 + b^2 = c^2$ can be used to find the sides of a right-angled triangle
		M-09-043	Finding the hypotenuse of a right triangle	Find the hypotenuse of a right-angled triangle using Pythagoras' theorem
		M-09-044	Finding the other sides of a right triangle	Apply Pythagoras' theorem to find the length of the other two sides of a right-angled triangle
		M-09-045	Applying Pythagoras' theorem	Solve diagram and word problems involving Pythagoras' theorem
13	REVISION			
14	EXAMS			

**JSS 3 – Term 2**

<b>Week</b>	<b>Topic</b>	<b>LP No.</b>	<b>Lesson Title</b>	<b>Learning outcomes</b>	
<b>1</b>	<b>Geometry</b>	GEOMETRY explore congruency of plane shapes using transformations	M-09-046	Review of transformations	Identify and perform translation, reflection, and rotation
			M-09-047	Combining transformations	Carry out combinations of translation, reflection, and rotation Describe and compare the four transformations
			M-09-048	Congruency	Compare two shapes that have undergone reflection, rotation and translation and identify them as congruent
			M-09-049	Practice with congruency	Create congruent shapes by performing transformations
			M-09-050	Length measurement of two congruent shapes	Recognise that length measurements (length, area, perimeter, etc.) of congruent shapes are maintained
<b>2</b>	<b>Geometry</b>	use enlargements to explain similarity in two-dimensional shapes; differentiate between congruency and similarity	M-09-051	Angles of congruent shapes	Recognise that angle measurements of congruent shapes are maintained
			M-09-052	Enlargement	Identify that enlargement creates an object of the same shape, but a different size Recognize and perform enlargement
			M-09-053	Similarity	Identify that enlarged shapes are similar because angles are preserved but lengths are not
			M-09-054	Comparing congruent and similar shapes	Differentiate between congruency and similarity of shapes
			M-09-055	Transformation practice	Carry out combinations of the four common transformations Identify shapes as either congruent or similar after carrying out a combination of transformations
<b>3</b>	<b>Geometry</b>	Introduce trigonometric	M-09-056	Introduction to	Identify the right and acute angles of a right

**JSS 3 – Term 2**

Week		Topic	LP No.	Lesson Title	Learning outcomes
		ratios (SOHCAHTOA) investigate the constant ratio for the sine, cosine and tangent of a given angle in right-angled triangles;		trigonometry	triangle Identify the relative sides of a right triangle (adjacent, opposite, hypotenuse) Identify SOHCAHTOA as a rule for remembering trigonometric ratios
	M-09-057		Sine	Apply the sine ratio to solve for an unknown side	
	M-09-058		Cosine	Apply the cosine ratio to solve for an unknown side	
	M-09-059		Tangent	Apply the tangent ratio to solve for an unknown side Identify that tangent is a ratio of sine and cosine: $\tan x = \frac{\sin x}{\cos x}$	
	M-09-060		Applying the trigonometric ratios	Find the lengths of sides of a triangle using sine, cosine, and tangent of given angles	
4	Geometry	solve problems using the sine, cosine and tangent ratios; interpret log tables use trigonometry to solve mixed problems with right-angled triangles	M-09-061	Trigonometric tables for tangent sine	Use trigonometric tables to find sine of an angle
			M-09-062	Trigonometric tables for cosine	Use trigonometric tables to find cosine of an angle
			M-09-063	Trigonometric tables for tangent	Use trigonometric tables to find tangent of an angle
			M-09-064	Trigonometry practice	Determine which trigonometric function should be applied to a given problem Apply the trigonometric functions
			M-09-065	Trigonometry word problems	Solve trigonometry word problems with and without diagrams
5	Algebra	ALGEBRA change the subject of a formula, like terms (identify, group, combine), substitute	M-09-066	Changing the subject of a formula	Balance an equation using addition, subtraction, multiplication, and division
			M-09-067	Combining like terms	Identify and combine like terms
			M-09-068	Solving linear	Solve linear equations in one variable by



**JSS 3 – Term 2**

Week		Topic	LP No.	Lesson Title	Learning outcomes
		values for given variables and simplify		equations	balancing the equation and combining like terms
	M-09-069		Substitution	Find the value of an algebraic expression by substituting values	
	M-09-070		Practice solving algebraic expressions	Solve algebraic expressions using various techniques	
6	Algebra	Review expansion of simple algebraic expressions; identify quadratic equations; expand two binomials to form quadratic equations	M-09-071	Multiplying an algebraic expression by an integer	Expand an algebraic expression by multiplying an expression by an integer
			M-09-072	Multiplying variables	Multiply two monomials with variables, applying the rules of indices
			M-09-073	Multiplying an algebraic expression by a variable	Expand an algebraic expression by multiplying an expression by variable
			M-09-074	Algebraic expression story problems	Write and simplify algebraic expressions for situations in story problems
			M-09-075	Introduction to quadratic equations	Identify a quadratic equation as one of the form $ax^2 + bx + c = 0$
7	Algebra	Continuation of above	M-09-076	Multiplying two binomials	Identify the FOIL (First Outside Inside Last) method as a rule for multiplying (expanding) two binomials Multiply two binomials
			M-09-077	Practice with multiplying two binomials	Multiply (expand) two binomials to form a quadratic equation
			M-09-078	Review of factorisation: integers	Identify that factorisation involves using division to break an expression into parts Identify and factor integers that are common factors in an algebraic expression
			M-09-079	Review of	Identify and factor variables that are common

**JSS 3 – Term 2**

Week		Topic	LP No.	Lesson Title	Learning outcomes
				factorisation: variables	factors in an algebraic expression
			M-09-080	Factorisation of quadratic equations	Identify the factorisation method of factoring a quadratic equation into two binomials
8	Algebra	Review factorization of simple algebraic expressions; factorise quadratics equations using factorization and completing the squares	M-09-081	Practice with factorisation of quadratic equations	Apply the factorisation method to factor a quadratic equation into two binomials
			M-09-082	Factorisation by completing the squares method	Identify the 'completing the squares' method of factoring a quadratic equation into two binomials
			M-09-083	Practice with completing the squares method	Apply the factorisation method to factor a quadratic equation into two binomials
			M-09-084	Practice with factorisation	Identify and apply the best method to factor a given algebraic expression, including quadratic expressions
			M-09-085	Story problems with quadratic expressions	Write quadratic expressions for situations in story problems
9	Algebra	Introduce linear equations in two variables	M-09-086	Introduction to linear equations in two variables	Identify a simple linear equations in two variables and the form its solutions take: $(x, y)$
		construct and solve linear equations in 2 variables where the variable appears on both sides of the equals sign, identify that solutions take the form $(x,y)$ and verify solutions by substitution	M-09-087	Verifying solutions to linear equations	Verify solutions to equations in two variables by substitution
			M-09-088	Finding solutions to linear equations I	Find solutions to equations in two variables by substituting a value for one variable and solving for the other
			M-09-089	Finding solutions to linear equations II	Solve linear equations where the variable appears on both sides of the equation by balancing the equation and combining like terms

**JSS 3 – Term 2**

Week		Topic	LP No.	Lesson Title	Learning outcomes
			M-09-090	Practice solving linear equations	Solve any linear equation in two variables
10	Algebra	Linear equation story problems Completing tables of linear equations in two variables	M-09-091	Solving linear equation story problems I	Solve simple story problems by creating and solving linear equations in two variables
			M-09-092	Solving linear equation story problems II	Solve more difficult story problems by creating and solving linear equations in two variables
			M-09-093	Tables of values	Create a table of values for a simple linear equation in two variables
			M-09-094	Practice with tables of values	Create a table of values for a more complicated linear equation in two variables
			M-09-095	Review of the Cartesian plane	Draw a Cartesian plane Identify the x- and y-axes and label them with positive and negative values Identify points in each quadrant of a Cartesian plane and write them in the form $(x, y)$
11	Algebra	<ul style="list-style-type: none"> <li>Continuation of above</li> </ul>	M-09-096	Plotting points in the Cartesian plane	Plot given points in any quadrant of the Cartesian plane
			M-09-097	Plotting points from a table of values	Plot points from a given table of values on the Cartesian plane
			M-09-098	Graphing a line I	Create a table of values for a given linear equation in two variables and graph it on the Cartesian plane
			M-09-099	Graphing a line II	Graph more complicated linear equations
			M-09-100	Graphing a line III	Practice graphing a line
12	Algebra	draw and explore graphs of linear equations in 2 variables on the Cartesian plane	M-09-101	Introduction to slope	Identify that the slope of a line describes its steepness, and is described by the fraction $\frac{\text{rise}}{\text{run}}$ Identify the direction of positive and negative slope
			M-09-102	Finding the slope of	Find the slope of a line by counting and dividing

**JSS 3 – Term 2**

Week		Topic	LP No.	Lesson Title	Learning outcomes
				a line	its rise and run
			M-09-103	Slope formula	Find the slope of a line using two points $(x_1, y_1)$ and $(x_2, y_2)$ on the line, and the formula $m = \frac{y_2 - y_1}{x_2 - x_1}$
			M-09-104	Slope-intercept form of linear equations	Identify the slope ( $m$ ) and $y$ -intercept ( $b$ ) of a linear equation in slope-intercept form: $y = mx + b$ Identify the $y$ -intercept of a line on the Cartesian plane
			M-09-105	Graphing lines in slope-intercept form	Graph a linear equation in slope-intercept form using a table of values, and verify its slope and $y$ -intercept
13		Revision			
14		EXAMS			

**JSS 3 – Term 3**

<b>Week</b>	<b>Topic</b>	<b>LP No.</b>	<b>Lesson Title</b>	<b>Learning outcomes</b>	
<b>1</b>	<b>Algebra</b>	<b>ALGEBRA</b> Understand and use 'greater than' and 'less than' symbols (with integers and variables – represent on number line) construct and solve linear inequalities in one variable and represent on the number line	M-09-106	Review of the number line	Illustrate positive and negative numbers on the number line Compare and order numbers on the number line
			M-09-107	Introduction to inequality	Identify the 'greater than' and 'less than' symbols and use them to compare positive and negative numbers Show 'greater than' and 'less than' on the number line
			M-09-108	Linear inequality	Interpret simple linear inequalities Represent simple linear inequalities on the number line
			M-09-109	Solving linear inequalities in one variable I	Solve linear equations in one variable using addition and subtraction
			M-09-110	Solving linear inequalities in one variable II	Solve linear equations in one variable using multiplication and division
<b>2</b>	<b>Algebra</b>	construct and solve linear inequalities from word problems	M-09-111	Solving linear inequalities in one variable III	Apply algebraic principles to solve a linear inequality and illustrate the answer on the number line
			M-09-112	Creating inequalities from story problems	Identify the unknown variable in a story problem Identify an inequality problem and apply the appropriate inequality symbol
			M-09-113	Solving inequality story problems I	Create and solve an inequality from a story problem
			M-09-114	Solving inequality story problems II	Create and solve an inequality from more complicated story problems
			M-09-115	Practice with inequalities	Solve various linear inequality problems and represent answers on the number line

**JSS 3 – Term 3**

<b>Week</b>	<b>Topic</b>	<b>LP No.</b>	<b>Lesson Title</b>	<b>Learning outcomes</b>	
<b>3</b>	Statistics and Probability	STATISTICS collect, organise, display, extract and interpret discrete, continuous and grouped data using pictograms, lists, frequency tables, bar charts, line graphs and pie charts, including in multi-step word problems (review); identify when to use which type of chart (pie for parts of a whole, bar to compare different quantities, etc.)	M-09-116	Data collection	Collect data from class members and display it in lists and pictograms
		M-09-117	Frequency tables	Organise and display collected data in a frequency table	
		M-09-118	Bar charts	Display collected data in a bar chart	
		M-09-119	Line graphs	Display collected data in a line graph	
		M-09-120	Interpreting charts and graphs	Make comparisons using pictograms, bar charts, and line graphs Draw conclusions from charts and graphs	
<b>4</b>	Statistics and Probability	Continuation of above	M-09-121	Interpreting pie charts	Interpret information from a pie chart Find the sectoral angles of a pie chart and relate them to the whole (360°)
		M-09-122	Creating pie charts	Display data collected from the class in a pie chart	
		M-09-123	Choosing a graph or chart	Collect data and decide on the best type of graph or chart to represent it	
		M-09-124	Mean	Calculate the mean of a set of data from a list, chart, or graph Interpret mean	
		M-09-125	Median	Calculate the median of a set of data from a list, chart, or graph Interpret median	
<b>5</b>	Statistics and Probability	calculate the mode, median, mean and range of a given set of discrete or continuous data (review) estimate the mean and	M-09-126	Mode and range	Calculate the mode and range of a set of data from a list, chart, or graph Interpret mode and range
		M-09-127	Introduction to grouped data	Identify that 'grouped data' involves dividing a set of data into groups, or 'class intervals'	

**JSS 3 – Term 3**

Week		Topic	LP No.	Lesson Title	Learning outcomes
		median, and find the modal class for grouped data *DISTRIBUTE STATISTICS LESSONS AS NECESSARY AMONG THE 3 WEEKS	M-09-128	Mean of grouped data	Create a frequency table for grouped data Estimate the mean of grouped data from a frequency table using the formula: $\bar{x} = \frac{\sum fx}{\sum f}$
			M-09-129	Median and modal class of grouped data	Identify the modal class as the class interval with the highest frequency Estimate the median of grouped data from a frequency table using the formula: $L_m + \left[ \frac{\frac{n}{2} - F_{m-1}}{f_m} \right] \times c$
			M-09-130	Practice with grouped data	Estimate the mean, median, and modal class for grouped data
6	Statistics and Probability	PROBABILITY conduct experiments and solve problems involving the probability of single and independent (combined) events (review)	M-09-131	Probability	Identify that probability describes the chance of something happening Discuss the probability of an event happening in words
			M-09-132	Probability experiments with one event	Conduct simple probability experiments Use probability terms such as 'experiment,' 'outcome' and 'event'
			M-09-133	Expressing probability with numbers	Express the probability of an event happening as a fraction Express the probability of an event happening as a percentage
			M-09-134	Likelihood of events	Compare whether events are impossible, unlikely, likely, or certain
			M-09-135	Probability experiments with two independent events	Conduct simple probability experiments with two independent events Identify that if two events are independent, the outcome of one does not affect the outcome of the other
7	Statistics and Probability	• Solve probability word	M-09-136	Probability of independent events	Solve simple probability problems with two independent events

**JSS 3 – Term 3**

<b>Week</b>		<b>Topic</b>	<b>LP No.</b>	<b>Lesson Title</b>	<b>Learning outcomes</b>
		problems, including multi-step word problems (review)		I	Interpret the word 'and' in probability problems as multiplication
	M-09-137		Probability of independent events	II	Identify whether two given events are independent or dependent Solve more difficult probability problems with two independent events
	M-09-138		Sample space		Identify that the 'sample space' of an experiment is the set of all possible outcomes Record the possible outcomes of an experiment in a sample space diagram
	M-09-139		Probability trees		Use a probability tree to demonstrate the probability of different outcomes occurring
	M-09-140		Probability story problems		Solve story problems involving the probability of an event happening
8	Measurement and Estimation	MEASUREMENT recall and use appropriately the formulas for perimeter, circumference, area of two-dimensional shapes including in multi-step word problems and with composite shapes (review)	M-09-141	Perimeter of triangles and quadrilaterals	Find the perimeter of a triangle and quadrilateral
			M-09-142	Area of triangles	Calculate the area of a triangle
			M-09-143	Area of quadrilaterals	Calculate the area of a square, rectangle, parallelogram, and trapezium
			M-09-144	Area and circumference of circles	Calculate the area and circumference of a circle
			M-09-145	Practical problems with area and	Find the perimeter and area of composite shapes



**JSS 3 – Term 3**

Week		Topic	LP No.	Lesson Title	Learning outcomes
				perimeter	Solve multi-step word problems on perimeter and area
9	Measurement and Estimation	recall and use appropriately the formulas for volume and surface area of three-dimensional shapes including in multi-step word problems and with composite shapes (review)	M-09-146	Volume of prisms	Find the volume of cubes, rectangular prisms, and triangular prisms
			M-09-147	Volume of cylinders	Find the volume of a cylinder
			M-09-148	Surface area of prisms	Find the volume of cubes, rectangular prisms, and triangular prisms
			M-09-149	Surface area of cylinders	Find the surface area of a cylinder
			M-09-150	Practical problems with volume and surface area	Find the volume and surface area of composite shapes Solve multi-step word problems on volume and surface area
10		Revision			
11		Exams			

Document information:

Leh Wi Learn (2018). "*Scope and Sequence Maths Class 09.*" A resource produced by the Sierra Leone Secondary Education Improvement Programme (SSEIP). DOI: 10.5281/zenodo.3745242.

Document available under Creative Commons Attribution 4.0,  
<https://creativecommons.org/licenses/by/4.0/>.

Uploaded by the EdTech Hub, <https://edtechhub.org>.

For more information, see <https://edtechhub.org/oer>.

Archived on Zenodo: April 2020.

DOI: 10.5281/zenodo.3745242

Please attribute this document as follows:

Leh Wi Learn (2018). "*Scope and Sequence Maths Class 09.*" A resource produced by the Sierra Leone Secondary Education Improvement Programme (SSEIP). DOI 10.5281/zenodo.3745242. Available under Creative Commons Attribution 4.0 (<https://creativecommons.org/licenses/by/4.0/>). A Global Public Good hosted by the EdTech Hub, <https://edtechhub.org>. For more information, see <https://edtechhub.org/oer>.