JSS 2 – Term 1
Week	Theme	Topic; Weekly Outcomes	LP No.	Lesson Title	Daily Learning Outcomes *Pupils will be able to*
1	Number and Numeration	FRACTIONS, DECIMALS, and INTEGERS identify, read, write and count integers, fractions and decimals of any size, both positive and negative; order and compare these numbers and locate them on a number line		Review of Integers	Identify positive and negative integers Order and compare integers up to $\pm100,000,000$
				Review of the Number Line	Use different scales on the number line to locate integers of different sizes
				Review of Decimals	Identify place value of decimal numbers. Order and compare decimal numbers. Locate decimals on a number line
				Review of Fractions Less Than One.	Identify and interpret fractions less than 1. Order and compare fractions less than 1. Locate fractions less than 1 on a number line
				Review of Fractions Greater Than One.	Identify and interpret fractions greater than 1. Identify fractions greater than 1 as mixed numbers Order and compare fractions greater than 1. Locate fractions greater than 1 on a number line
2	Number and Numeration	identify, read, write and count a **mixture** of integers, fractions and decimals of any size, both positive and negative; order and compare	M-08-001	Converting Between Mixed and Improper Fractions	Express mixed numbers as improper fractions Express improper fractions as mixed numbers
			M-08-002	Converting Decimals to Fractions	Express decimals as fractions
			M-08-003	Converting Fractions to	Express fractions as decimals

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Week	Theme	Topic; Weekly Outcomes	LP No.	Lesson Title	Daily Learning Outcomes *Pupils will be able to*
		these numbers and locate them on a number line		Decimals	
			M-08-004	Locating a mixture of numbers on the numbers line	Locate integers, fractions, and decimals on the number line
			M-08-005	Comparing and ordering a mixture of numbers	Order and compare integers, fractions, and decimals
3	Number and Numeration	investigate terminating and recurring decimals and their associated fractions; round numbers to a required degree of accuracy including number of decimal places or significant figures	M-08-006	Classification of decimal numbers	Identify terminating decimals Identify recurring decimals
			M-08-007	Rounding off decimal numbers to whole numbers.	Round decimal numbers to the nearest whole number
			M-08-008	Rounding off decimal numbers to stated decimal places.	Round decimal numbers to a given number of decimal places
			M-08-009	Introduction to significant figures.	Identify significant figures in whole numbers and decimals
			M-08-010	Rounding off decimal numbers to significant figures	Round decimal numbers to a given number of significant figures.
4	Everyday Arithmetic	apply *everyday arithmetic* (see list) to calculate with a mixture of integers, fractions and decimals	M-08-011	Adding and subtracting integers and decimals	Add and subtract a mixture of integers and decimals
			M-08-012	Adding and subtracting fractions with integers and decimals	Add and subtract a mixture of fractions, integers and decimals
			M-08-013	Multiplying and dividing integers by decimals	Multiply and divide a mixture of integers and decimals

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Week	Theme	Topic; Weekly Outcomes	LP No.	Lesson Title	Daily Learning Outcomes *Pupils will be able to*
			M-08-014	Multiplying and dividing fractions by integers and decimals	Multiply and divide a mixture of fractions, integers and decimals
			M-08-015	Story problems with operations on different number types	Apply operations to different number types in story problems Give answers to required degree of accuracy
5	Number and Numeration	FACTORS and MULTIPLES use the concepts and vocabulary of factors, multiples, prime and composite numbers, highest common factor HCF, lowest common multiple LCM and prime factorisation (review)	M-08-016	Review the concept and vocabulary of factors and multiples.	Identify factors and multiples of given numbers
			M-08-017	Review prime and composite numbers.	Identify prime and composite numbers
			M-08-018	Prime factors of whole numbers	Find the prime factors of given numbers
			M-08-019	Calculating the Least Common Multiple (LCM)	Find the least common multiple (LCM) of given numbers using prime factorisation
			M-08-020	Calculating the highest common factor (HCF)	Find the highest common factor (HCF) of given numbers using prime factorisation
6	Number and Numeration	INDEX NOTATION investigate index notation and establish the laws of indices for integers (2 weeks)	M-08-021	Index notation	Identify the index and base in index notation Identify that the index indicates the number of times the base is multiplied by itself Identify that any integer raised to the power of one gives itself ($a^1 = a$)
			M-08-022	Index law 1: multiplication of	Identify that $a^m \times a^n = a^{m+n}$ Multiply two or more indices

Week	Theme	Topic; Weekly Outcomes	LP No.	Lesson Title	Daily Learning Outcomes *Pupils will be able to*
				indices	
			M-08-023	Index law 2: division of indices	Identify that $a^m \div a^n = a^{m-n}$ Divide two or more indices
			M-08-024	Index law 3: power of zero	Identify that any integer raised to the power of zero equals one ($a^0 = 1$)
			M-08-025	Index law 4: powers of indices	Identify that $(a^m)^n = a^{mn}$ Apply an additional power to an index
7	Number and Numeration	investigate index notation and establish the laws of indices for integers (2 weeks)	M-08-026	Index laws 5 and 6: power of a product and quotient	Identify that $(a \times b)^n = a^n \times b^n$ and $\left(\frac{a}{b}\right)^n = \frac{a^n}{b^n}, b \neq 0$ Apply index laws 4 and 5 to simplifying problems
			M-08-027	Application of the laws of indices	Use the six laws of indices to simplify problems
			M-08-028	Indices with negative powers	Identify that a number with a negative index can be rewritten as a fraction ($a^{-n} = \frac{1}{a^n}$) Simplify simple indices with negative powers
			M-08-029	Multiplying and dividing indices with negative powers	Apply the laws for multiplying and dividing indices to those with negative powers
			M-08-030	Negative powers and the index laws	Apply the index laws to simplifying expressions containing positive and negative powers
8	Number and Numeration	PERCENTAGES Review and solve	M-08-031	Identifying the percentage of a given	Calculate the given percentage of a given quantity

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Week	**Theme**	**Topic; Weekly Outcomes**	**LP No.**	**Lesson Title**	**Daily Learning Outcomes** *Pupils will be able to*
		problems with percentages less than 100; Introduce percentages greater than 100.		quantity	
			M-08-032	Expressing one quantity as a percentage of another	Calculate one quantity as a percentage of another
			M-08-033	Percentage increase	Calculate the percentage increase, given two numbers
			M-08-034	Percentage decrease	Calculate the percentage decrease, given two numbers
			M-08-035	Applying percentage increase and decrease	Calculate a number given the percentage increase or decrease upon a given number
9	Everyday Arithmetic	solve problems with percentages including percentages greater than 100, including in multi-step story problems	M-08-036	Introduction to profit and loss	Compare profit to loss Identify that profit is a percentage increase and loss is a percentage decrease
			M-08-037	Calculating profit	Apply percentages to calculate profit on a transaction
			M-08-038	Calculating loss	Apply percentages to calculate loss on a transaction
			M-08-039	Introduction to percentages greater than 100	Identify percentages greater than 100 as more than one whole
			M-08-040	Calculations with percentages greater than 100	Calculate the percentage of a number where the percentage is greater than 100
10	Everyday Arithmetic	RATIO, RATES and PROPORTIONS solve problems	M-08-041	Ratio	Identify the forms of ratio: m:n and m/n Simplify ratios to their lowest terms
			M-08-042	Rate	Identify that rate is a special ratio that

Week	Theme	Topic; Weekly Outcomes	LP No.	Lesson Title	Daily Learning Outcomes *Pupils will be able to*
		involving ratios and rates, express answers in lowest terms			compares two units of measurement Identify notation for rates
			M-08-043	Unit rate	Perform basic calculations to find unit rate Convert different rates to their unit rates
			M-08-044	Calculation of unit price	Calculate the unit price of goods sold by various units (l., kg., etc.)
			M-08-045	Making comparisons with unit price	Compare goods to find which one has a better unit price
11	Everyday Arithmetic	solve problems involving direct proportions	M-08-046	Direct proportion	Identify that a proportion is two ratios set equal to each other Identify the symbol for proportionality ($\propto$), the means and extremes
			M-08-047	Identifying direct proportions	Identify true proportions Find the constant of proportionality
			M-08-048	Solving direct proportions	Find the value of an unknown term in a direct proportion
			M-08-049	Applications of direct proportion	Solve problems with direct proportions Solve proportions that include units
			M-08-050	Direct proportion story problems	Solve story problems involving direct proportion
12	Everyday Arithmetic	solve problems involving indirect proportions	M-08-051	Indirect proportion	Identify the form of an indirectly proportional relationship ($t \propto \frac{1}{d}$) Compare indirect proportion to direct proportion
			M-08-052	Solving indirect proportions	Find the value of an unknown term in an indirect proportion
			M-08-053	Applications of indirect	Solve problems with indirect proportions

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Week	Theme	Topic; Weekly Outcomes	LP No.	Lesson Title	Daily Learning Outcomes *Pupils will be able to*
				proportion	Solve indirect proportions that include units
			M-08-054	Indirect proportion story problems	Solve story problems involving indirect proportion
			M-08-055	Practice with proportion	Solve number and story problems with direct and indirect proportion
13		REVISION			
14		EXAMS			

| JSS 2 – Term 2 |
Week	Theme	Topic; Weekly Outcomes	LP No.	Lesson Title	Daily Learning Outcomes *Pupils will be able to*
1	Everyday Arithmetic	FINANCIAL LITERACY *(3 days)* apply *everyday arithmetic* to calculate with money including personal expenditure and commercial transactions TIME *(2 days)* solve problems involving duration, including using 12- and 24-hour time within a single time zone; solve multi-step story problems involving time	M-08-056	Personal expenditure	Calculate the percentage of a person's income spent on a certain type of expense
			M-08-057	Income tax	Calculate the tax on a person's income
			M-08-058	Sales tax	Calculate the sales tax on a transaction
			M-08-059	Time and duration	Identify and use language for 12- and 24-hour time Solve simple problems involving duration
			M-08-060	Problem solving with time	Solve story problems involving time and duration
2	Measurement and Estimation	MEASUREMENT use the formulas for perimeters and areas to solve simple problems with quadrilaterals (review); solve multi-step story problems involving perimeter and area of two-dimensional shapes including with	M-08-061	Perimeter and area of rectangles and squares	Find the perimeter and area of rectangles and squares
			M-08-062	Perimeter and area of parallelograms	Find the perimeter and area of parallelograms, including rhombuses
			M-08-063	Perimeter and area of trapeziums	Find the perimeter and area of trapeziums
			M-08-064	Perimeter and area of triangles	Find the perimeter and area of triangles
			M-08-065	Perimeter and area of circles	Find the circumference and area of circles

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Week	Theme	Topic; Weekly Outcomes	LP No.	Lesson Title	Daily Learning Outcomes *Pupils will be able to*
		composite shapes calculate the volume of rectangular and triangular prisms, and cylinders using the appropriate formula			
3	Measurement and Estimation	Generate the general volume formula for prisms and cylinders, i.e. area of cross-section x height.	M-08-066	Perimeter and area of composite shapes	Calculate the perimeter and area of composite shapes
			M-08-067	Perimeter and area story problems	Solve practical problems on perimeter and area
			M-08-068	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-08-069	Volume of cubes	Calculate the volume of a cube using the formula
			M-08-070	Volume of rectangular prisms	Calculate the volume of a rectangular prism using the formula
4	Measurement and Estimation	Solve multi-step story problems involving volume of three-dimensional shapes including with composite shapes calculate the surface area of rectangular and	M-08-071	Volume of triangular prisms	Calculate the volume of a triangular prism using the formula
			M-08-072	Volume of cylinders	Calculate the volume of a cylinder using the formula
			M-08-073	Volume of composite solids	Calculate the volume of composite solids
			M-08-074	Volume story problems	Solve practical problems on volume
			M-08-075	Surface area of solids	Identify surface area as the area of the

JSS 2 – Term 2					
Week	Theme	Topic; Weekly Outcomes	LP No.	Lesson Title	Daily Learning Outcomes *Pupils will be able to*
		triangular prisms and cylinder.			outside layer of a solid Identify and interpret measurements for surface area (units squared)
5	Measurement and Estimation	Solve multi-step story problems involving surface area of three-dimensional shapes including with composite shapes.	M-08-076	Surface area of cubes and rectangular prisms	Calculate the surface area of a cube and rectangular prism
			M-08-077	Surface area of triangular prisms	Calculate the surface area of a triangular prism
			M-08-078	Surface area of cylinders	Calculate the surface area of a cylinder
			M-08-079	Surface area of composite solids	Calculate the surface area of composite solids
			M-08-080	Surface area story problems	Solve practical problems on surface area
6	Geometry	ANGLES Review angle types and finding missing angles of a triangle or quadrilateral; Identify types of polygons up to decagon	M-08-081	Introduction to angles	Identify and compare types of angles (acute, obtuse, right, straight, and reflex angle) Identify degrees as angle measurement
			M-08-082	Measurement of angles	Estimate the measure of a given angle Measure given angles (acute, obtuse, right angle) using a protractor
			M-08-083	Finding unknown angles in triangles	Identify that the sum of the angles of a triangle is 180° Find unknown angles in triangles
			M-08-084	Finding unknown angles in quadrilaterals	Identify that the angles of any quadrilateral sum up to 360° Find unknown angles in quadrilaterals
			M-08-085	Angle practice	Find unknown angles in various types of triangles and quadrilaterals

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Week	Theme	Topic; Weekly Outcomes	LP No.	Lesson Title	Daily Learning Outcomes *Pupils will be able to*
7	Geometry	extend angle properties to investigate and find the sum of the interior angles of a polygon of *n* sides (using formula), up to pentagon	M-08-086	Polygons	Identify and draw polygons up to decagon
			M-08-087	Sum of the interior angles of a pentagon	Find the sum of the interior angles of a pentagon Identify the formula for the sum of the interior angles of a polygon: $180°(n-1)$
			M-08-088	Sum of the interior angles of a polygon	Calculate the sum of the interior angles of a polygon using the formula: $180°(n-1)$
			M-08-089	Interior angle practice	Find unknown angles of a polygon using the sum of its interior angles
			M-08-090	Interior angle story problems	Solve practical problems on interior angles
8	Geometry	GEOMETRY describe transformations of two-dimensional shapes, e.g. - a given translation - a reflection in an axis - a given rotation	M-08-091	Introduction to transformation	Identify the general meaning of the words translate, rotate, reflect, and enlarge Identify four simple transformations: translation, rotation, reflection, and enlargement
			M-08-092	Translation	Identify that translation moves an object without changing its size or shape Recognize and perform a translation
			M-08-093	Reflection	Identify that reflection creates an object of the same size and shape, but facing the opposite direction Recognize and perform a reflection
			M-08-094	Line symmetry	Identify line symmetry on two dimensional shapes

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Week	Theme	Topic; Weekly Outcomes	LP No.	Lesson Title	Daily Learning Outcomes *Pupils will be able to*
			M-08-095	Rotation	Identify that rotation moves an object circularly around a single point, without changing its size or shape Recognize and perform a rotation
9	Geometry	describe transformations of two-dimensional shapes, e.g. - identify line and rotational symmetries - a combined transformation on two-dimensional shapes use scale factor in scale drawings and maps	M-08-096	Rotational symmetry	Identify rotational symmetry on two dimensional shapes
			M-08-097	Enlargement	Identify that enlargement creates an object of the same shape, but a different size Recognize and perform enlargement
			M-08-098	Combining transformations	Carry out combinations of all four common transformations Describe and compare the four transformations
			M-08-099	Applying scale factor to drawing	Use a scale factor to draw an object with accurate proportions
			M-08-100	Practical applications of scale	Use scale to draw an accurate map
10	Algebra	ALGEBRA identify, describe and complete arithmetic and geometric patterns determine the rule in the number pattern and identify it as the nth term; use the nth term rule to generate a number	M-08-101	Arithmetic patterns	Identify and describe arithmetic patterns Find missing terms of an arithmetic pattern
			M-08-102	Creating arithmetic patterns	Create arithmetic patterns by using a rule to find the next terms
			M-08-103	Introduction to geometric patterns	Identify and describe geometric patterns
			M-08-104	Terms of a geometric pattern	Find missing terms of a geometric pattern
			M-08-105	Creating geometric	Create geometric patterns by using a rule

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Week	Theme	Topic; Weekly Outcomes	LP No.	Lesson Title	Daily Learning Outcomes *Pupils will be able to*
		pattern or sequence		patterns	to find the next terms
11	Algebra	simplify simple algebraic expressions (review) simplify more complex algebraic expressions including fractions	M-08-106	Simplifying algebraic expressions	Identify and combine like terms where variables have power 0 or 1
			M-08-107	Simplifying expressions with higher powers	Identify and combine like terms where variables have power 2 or greater
			M-08-108	Simplifying expressions with fractions	Identify and combine like terms that involve fractions
			M-08-109	Multiplying an algebraic expression by an integer	Expand an algebraic expression by multiplying an expression by an integer
			M-08-110	Multiplying variables	Multiply two monomials with variables, applying the rules of indices
12	Algebra	expand simple algebraic expressions factorise simple algebraic expressions (review)	M-08-111	Multiplying an algebraic expression by a variable	Expand an algebraic expression by multiplying an expression by variable
			M-08-112	Simplifying and expanding algebraic expressions	Apply operations to simplify algebraic expressions involving integers and variables
			M-08-113	Algebraic expression story problems	Write algebraic expressions for situations in story problems
			M-08-114	Factoring integers from algebraic expressions	Identify integers that are common factors in an algebraic expression Divide common factors from an algebraic expression
			M-08-115	Factoring variables from algebraic	Identify variables that are common factors in an algebraic expression

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Week	**Theme**	**Topic; Weekly Outcomes**	**LP No.**	**Lesson Title**	**Daily Learning Outcomes** *Pupils will be able to*
				<mark>expressions</mark>	<mark>Divide common factors from an algebraic expression</mark>
13		Revision			
14		EXAMS			

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Week	Theme	Topic; Weekly Outcomes	LP No.	Lesson Title	Daily Learning Outcomes *Pupils will be able to*
1	Algebra	evaluate simple algebraic expressions by substituting given values	M-08-116	Practice with expansion	Expand an algebraic expression by multiplying
			M-08-117	Practice with factorisation	Identify common factors and factor an algebraic expression by dividing
			M-08-118	Substitution with one variable	Substitute a given value into an algebraic expression with one variable and find its value
			M-08-119	Substitution with two variables	Substitute given values into an algebraic expression with two variables and find its value
			M-08-120	Substitution practice	Substitute any given values into an algebraic expression and find its value
2	Algebra	review linear equations in one variable construct linear equations in one variable from story problems; solve the equations using algebraic techniques; verify solutions by substitution	M-08-121	Linear equations in one variable	Identify simple linear equations in one variable and their solutions
			M-08-122	Solving linear equations I	Solve linear equations in one variable by adding or subtracting values to balance the equation
			M-08-123	Solving linear equations II	Solve linear equations in one variable by multiplying or dividing values to balance the equation
			M-08-124	Solving linear equations III	Solve linear equation with brackets and with variables on both sides of the equation
			M-08-125	Solving linear equations IV	Solve linear equations with negative coefficients and fractions
3	Algebra	Continuation of above	M-08-126	Verifying solutions	Verify solutions to linear equations using substitution

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Week	Theme	Topic; Weekly Outcomes	LP No.	Lesson Title	Daily Learning Outcomes *Pupils will be able to*
			M-08-127	Introduction to linear equation story problems	Create linear equations in one variable based on story problems
			M-08-128	Solving linear equation story problems I	Solve simple story problems by creating and solving linear equations
			M-08-129	Solving linear equation story problems II	Solve more difficult story problems by creating and solving linear equations
			M-08-130	Linear equation practice	Create and solve linear equations in one variable
4	Algebra	draw graphs of linear equations on the Cartesian plane	M-08-131	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 the same x and y are often variables in linear equations, and the Cartesian plane is used to graph equations
			M-08-132	Identifying points on the Cartesian plane	Identify points in each quadrant of a Cartesian plane and write them in the form (x, y)
			M-08-133	Plotting points in the Cartesian plane	Plot given points in any quadrant of the Cartesian plane
			M-08-134	Table of values	Create a table of values and plot each point in the table on a coordinate plane
			M-08-135	Graphing a line	Plot points and connect them to graph a straight line
5	Statistics and Probability	STATISTICS collect, organise, display, extract and	M-08-136	Data collection	Collect data from class members and display it in lists and pictograms
			M-08-137	Tables of data	Organise and display collected data in a

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Week	Theme	Topic; Weekly Outcomes	LP No.	Lesson Title	Daily Learning Outcomes *Pupils will be able to*
		interpret continuous data using pictograms, lists, tables, bar charts and line graphs; include multi-step story problems (review)			table
			M-08-138	Bar charts	Display collected data in a bar chart
			M-08-139	Line graphs	Display collected data in a line graph
			M-08-140	Interpreting charts and graphs	Make comparisons using pictograms, bar charts, and line graphs Draw conclusions from charts and graphs
6	Statistics and Probability	calculate the mode, median, mean and range of a given set of data (review) collect, organise, display, extract and interpret discrete data using pie charts; include multi-step story problems	M-08-141	Mean	Calculate the mean of a set of data from a list, chart, or graph Interpret mean
			M-08-142	Median	Calculate the median of a set of data from a list, chart, or graph Interpret median
			M-08-143	Mode and range	Calculate the mode and range of a set of data from a list, chart, or graph Interpret mode and range
			M-08-144	Interpreting pie charts	Interpret information from a pie chart
			M-08-145	Pie chart angles	Find the sectoral angles of a pie chart and relate them to the whole (360°)
7	Statistics and Probability	collect, organise, display, extract and interpret discrete data using stem diagrams; include multi-step story problems	M-08-146	Creating pie charts	Display data collected from the class in a pie chart
			M-08-147	Creating stem diagrams	Display data collected from the class in a stem diagram
			M-08-148	Interpreting stem diagrams	Interpret information from a stem diagram Calculate mean, median, mode, and range from a stem diagram
			M-08-149	Choosing a graph or chart	Collect data and decide on the best type of graph or chart to represent it

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Week	Theme	Topic; Weekly Outcomes	LP No.	Lesson Title	Daily Learning Outcomes *Pupils will be able to*
			M-08-150	Practice making statistical calculations	Calculate mean, median, mode, and range from various types of graphs and charts
8	Statistics and Probability	PROBABILITY conduct simple experiments involving the probability of two independent (combined) events		Probability	Identify that probability describes the chance of something happening Discuss the probability of an event happening in words
				Probability experiments with one event	Conduct simple probability experiments Use probability terms such as 'experiment,' 'outcome' and 'event'
				Expressing probability with numbers	Express the probability of an event happening as a fraction Express the probability of an event happening as a percentage
				Likelihood of events	Compare whether events are impossible, unlikely, likely, or certain
				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
9	Statistics and Probability	solve problems involving the probability of two independent (combined) events; include multi-step story problems		Probability of independent events I	Solve simple probability problems with two independent events Interpret the word 'and' in probability problems as multiplication
				Probability of independent events II	Identify whether two given events are independent or dependent Solve more difficult probability problems

Week	Theme	Topic; Weekly Outcomes	LP No.	Lesson Title	Daily Learning Outcomes *Pupils will be able to*
					with two independent events
				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
				Probability trees	Use a probability tree to demonstrate the probability of different outcomes occurring
				Probability story problems	Solve story problems involving the probability of an event happening
10		Revision			
11		Exams			

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