

CONTENT DISTRIBUTION

SUBJECT: SUBSIDIARY MATHEMATICS

COMBINATION: LFK, HLP &HGL

Class: S4

Number of periods per week: 3 periods

Term 1 (36 periods)

UNIT 1: ARITHMETICS (36 periods)		
Key unit Competence: Use arithmetic operations to solve simple real life problems		
Week	Contents	Number of Periods
1	Introductory activity	1
	Fractions and related problems	2
2-3	Decimals and related problems	2
	Percentages and related problems	2
	Ratios and related problems	2
4-5	Negative numbers and related problems	2
	Absolute value (concept and properties)	2
	Problems involving absolute value	2
6	Powers (concept and properties)	1
	Problems involving powers	2
7	Concept of radicals and properties	1
	Rationalization	1
	Problems involving radicals	1
8-9	Concept of decimal logarithms and properties	2
	Simple equations involving decimal logarithms	2
	Simple interest and related problems	2
10	Compound interest and related problems	3
11	Final value of investment	2
	Arc of elasticity for demand	1
12	Revision of unit	2
	End unit assessment	1
13	EXAM	

Term 2 (36 periods)

UNIT 2: EQUATIONS AND INEQUALITIES (36 periods)		
Key unit Competence: Apply equations and inequalities to solve problems related to daily life		
Week	Lesson titles	Number of Periods
1	Introductory activity	1
	Linear equations in one unknown	2
2	Real life problems involving linear equations	2
	Meaning of inequalities	1
3	Concepts of intervals and properties	1
	Problems involving intervals	2
4-5	Inequalities involving products	2
	Inequalities involving quotients	2
	Real life problems involving linear inequalities	2
6-7	Solving algebraically two simultaneous linear equations by equating the same variables	2
	Solving algebraically two simultaneous linear equations by elimination method	2
	Solving graphically two simultaneous linear equations	2
8	Solving algebraically and graphically two simultaneous linear inequalities	3
9	Solving quadratic equations by factorization	2
	Concept of discriminant	1
10	Solving quadratic equations using discriminant	2
	Applications of linear : Concept of supply and demand equations with examples	1
11-12	Problems about supply and demand (equilibrium price), finance	2
	Revision of unit	2
	End unit assessment	2
13	EXAM	

Term 3 (36 periods)

UNIT 3: DESCRIPTIVE STATISTICS (24 Periods)		
Key Unit Competence: Analyze and interpret statistical data from daily life situations		
Week	Lesson titles	Number of Periods
1	Introductory activity	1
	Definition and type of data	2
2	Presentation of data using frequency distribution table	2
	Presentation of data using bar chart	1
3-6	Presentation of data using pie chart	2
	Presentation of data using histogram and polygon	3
	Graph interpretation	2
	Measures of central tendency for ungrouped data: Mode and Mean	3
	Measures of central tendency for ungrouped data: Median	2
7-8	Measures of central tendency for grouped data: mode	2
	Measures of central tendency for grouped data: Mean	2
	Measures of central tendency for grouped data: Median	2
9-10	Measures of dispersion: Quartiles	2
	Measures of dispersion: Variance	2
	Measures of dispersion: Standard deviation	2
11	Measures of dispersion: Coefficient of variation	2
	Application: Collection, organization, presentation and interpretation of data and draw conclusions	1
12	Revision of unit	2
	End unit assessment	1
13	EXAM	