Curriculum Progress Report

SESSION: 2023 – 2024



Month : September - Grade 12

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Subject	Chapter	Topics Covered	Additional Information
English	Child Language Acquisition	Introducing the stages of language acquisition- before birth and babbling Introducing the stages of language acquisition- holophrastic and telegraphic Introducing the stages of language acquisition- post- telegraphic and beyond Complete practice on CLA	No. of Worksheets and Assignments completed: 3 No. of unit tests/class tests done: 1
	English In the World	Introducing English in the World- history	
Subject	Chapter	Topics Covered	Additional Information
Accounting	Preparation of financial statements – limited companies: Published Company Account -22	Understand the nature and purpose of the financial statements of limited companies Prepare additional schedules to the income statement and statement of financial position for limited companies	No. of Worksheets and Assignments completed: 3 No. of Math problems / No. of Sums practices / Exercises completed: N/A
	Statement of Cash Flow - 23	Prepare a statement of cash flows and statement of financial position in line with IAS7	No of Lab classes held (if applicable): N/A and Topics Covered: No. of unit tests/class tests done: 3
	Preparation of financial statements: partnerships : 18	Deal with goodwill, revaluation of assets and changes of partnership arising from the introduction of new partners and/or retirement of existing partners or the dissolution of the partnership	
Subject	Chapter	Topics Covered	Additional Information
	Chapter 2 (Normal contact force and motion in a vertical line)	By the end of the lessons students will be able to : (a) solve comlicated and few exam type questions	

Mechanics	Chapter 3 (a) Resolving forces (b) Equilibrium problems (c) Non equilibrium problems (d) Resultant forces and direction of acceleration	By the end of the lessons students will be able to : (a) solve problems based on Resolving Forces(b) solve problems based complicated board and text book questions	No. of Worksheets and Assignments completed: 3 No. of Math problems / No. of Sums practices / Exercises completed: N/A No of Lab classes held (if applicable): and Topics Covered: No. of unit tests/class tests done: 2
	Chapter 4 (Only First Exercise)	By the end of the lessons students will be able to : (a) relate friction with contact force (b) solve simple problems based on friction	
Subject	Chapter	Topics Covered	Additional Information
Statistics 2	Chapter 2 & 3	Poisson Distribution, Continuous random variables	No. of Worksheets and Assignments completed: 3 No. of Math problems / No. of Sums practices / Exercises completed: N/A No of Lab classes held (if applicable): and Topics Covered: No. of unit tests/class tests done: 2
Subject	Chapter	Topics Covered	Additional Information
	21 Further aspects of equilibrium	 21.1 Conjugate acids and conjugate bases 21.2 pH calculations 21.3 Weak acids: using the acid dissociation constant, Ka 21.4 Buffer solutions 21.5 Equilibrium and solubility 21.6 Partition coefficients 	
Chemistry	22 Reaction Kinetics	 22.1 Factors affecting reaction rate 22.2 Rate of reaction 22.3 Rate equations 22.4 Which order of reaction? 22.5 Calculations involving the rate constant, k 22.6 Deducing order of reaction from raw data 22.7 Kinetics and reaction mechanisms 22.8 Catalysis 	No. of Worksheets and Assignments completed: Chapter: 21-3 WS,Chapter:22-3 WS, Chapter:23- 2 WS No. of Math problems / No. of Sums practices / Exercises completed: N/A No of Lab classes held (if applicable): NA and Topics Covered: No. of unit tests/class tests done: 2

	Entropy and Gibbs free ene	 23.1 Introducing entropy 23.2 Chance and spontaneous change 23.3 Calculating entropy changes 23.4 Entropy, enthalpy changes and Gibbs free energy 23.5 Gibbs free energy 23.6 Gibbs free energy calculations 	
Subject	Chapter	Topics Covered	Additional Information
	Chapter 9 Corporate plan	 6.2.2 Corporate planning and implementation the meaning and importance of corporate planning the meaning of corporate culture and its impact on business decision-making the meaning and importance of transformational leadership the management and control of strategic change the meaning and importance of contingency planning and crisis management 	

		 7.1.1 The relationship between business objectives and organisational structure the purpose and attributes of an organisational structure such as flexibility, meeting the needs of the business, allowing for growth and development and encouraging intrapreneurship, 7.1.2 Types of 	
		structure: functional, hierarchical (flat and narrow), matrix	
		• the advantages and disadvantages of the different types of structure	
		• why some organisations are structured by product	
		and others by function or geographical area	
		• the reasons and ways structures change e.g. due to growth or delayering	
		• the features of a formal structure: levels of hierarchy,	
	Charten 12	chain of command, span of control, responsibility,	
	Chapter 13 Organisational structure	authority, delegation, accountability, centralised, decentralised	
	(A Level)	7.1.3 Delegation and accountability	
		• the relationship between delegation and	
		accountability	
		• the processes of accountability in a business	
		• the impact of delegation on a business	
		7.1.4 Control, authority and trust	
		• the relationship between span of control and levels	
		of hierarchy	
		• the difference between authority and responsibility	
		• the conflicts between control and trust that might	No. of Worksheets and Assignments completed:
		arise when delegating 7.1.5 Centralisation and decentralisation	3
		 the impact of centralisation and decentralisation 	No. of Math problems / No. of Sums practices /
Business Studies		business	Exercises completed: N/A
		7.1.6 Line and staff	No of Lab classes held (if applicable): and Topics Covered:
		• examples of and distinctions between line and staff	No. of unit tests/class tests done: 2
		functions and the conflicts between them	

	Chapter 14 Business com	7.2.1 Purposes of communication	
		• situations in which communication is essential	
		7.2.2 Methods of communication	
		• the standard methods of communication used in	
		business: spoken, written, electronic, visual	
		• the strengths and weaknesses of the different	
		methods of communication, 7.2.3 Channels of	
		communication	
		how communication works within a business	
		• the difference between one- and two-way	
		communication; the difference between vertical and	
		horizontal	
		communication	
		• problems associated with different channels of	
		communication	
		7.2.4 Barriers to communication	
		barriers to communication and how to overcome	
		them	
		7.2.5 The role of management in facilitating	
		communication	
		• the role of informal communications within a	
		business	
		• ways in which communication can influence the	
		efficiency of a business	
		ways of improving communication in a given	
		situation	
		7.3.1 Leadership	
		 the purpose of leadership 	
		• leadership roles in business (directors, managers, sup	
		 the qualities of a good leader 	
	pter 15 Leadership (A Le	7.3.2 Theories of leadership	
		• key leadership theories: trait, behavioural, contingen	
		7.3.3 Emotional intelligence/emotional quotient (EQ)	
		 Goleman's four competencies of emotional intelligen 	
		and social skills,	
ıbject	Chapter	Topics Covered	Additional Information

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Pure Maths 3	Chapter 4 - Differentiation (The product rule, The quotient rule, Derivatives of exponential, natural logarithmic and trigonometric functions) Chapter 4 - Differentiation (Implicit differentiation, Parametric differentiation)	"Learners will be able to differentiate products, quotients and exponential functions, e.g. , ex, together with constant multiples, sums, differences and composites " Find and use the first derivative of a function which e.g., $x^2 + y^2 = xy + 7$, e.g., $x = t - e^{2t}$, $y = t + e^{2t}$, including use in problems involving tangent and r	No. of unit tests/class tests done: 2
Subject	Chapter	Topics Covered	Additional Information
	13.5 Photosynthesis 14.1- Homeostasis 14.2 Homeostasis 14.3- 4 Homeostasis	 * Describe how to investigate the effect of light intensity and light wavelength on chloroplast suspension Class Test * Explain principles of homeostasis * Explain how negative feedback is involved in homeostasis * Describe deamination * Describe the structure of human kidney and identify parts of nephron in diagrams * Describe and explain urine formation * Describe detailed structure of Bowmans capsule and PCT and their adaptation for ultrafilteration and selective reabsorption * Describe how kidneys control water potential in blood * Explain how osmoregulation in coordinated 	

	14.4 Homeostasis 14.5 Homeostasis 14 Homeostasis: Class test 15.1 Control and coordination 15.2 Control and	 * Describe the principles of cell signalling as applied to control of blood glucose concentration * Explain how blood glucose concentartion is regulated * Explain how test strips and biosensors are used to measure concentration of glucose in blood and urine and explain the role of glucose oxidase and peroxidase enzymes * Describe the structure and function of guard cell and explain how they regulate the width of the stomatal apperture * Explain that stomata have dailly rhythms and respond to changes in the environmental conditions * Describe how abscisic acid is involved in the closure of stomata during water stress Review the learning objectives from homeostasis * Solve questions from past papers *Describe the structure and nervous system * Describe the structure and nervous system 	No. of Worksheets and Assignments completed: 4 No. of Math problems / No. of Sums practices / Exercises completed: N/A No of Lab classes held (if applicable): 1 and Topics Covered: Kidney Dissection No. of unit tests/class tests done: 2
	coordination	 * State the function of intermediate neurones * Describe and explain changes to the membrane 	
	15.2 Control and coordin	potential of neurones	
Subject	Chapter	Topics Covered	Additional Information

CSc	14 Communication and Internet Technologies 15.1 Processors, Parallel Processing 20.1 Programming Paradigms (OOP)	 Explain why a protocol is essential for communication between computers. Describe protocol implements as a stack, with each layer having its own functionality. Describe the TCP/IP protocol suite. Describe the purpose of the protocols HTTP, FTP, POP3, IMAP, SMTP, BitTorrent. Explain the purpose, benefits and drawbacks of circuit switching and packet switching. Justify the use of packet and/or circuit switching in a scenario. Describe Reduced Instruction Set Computers (RISC) and Complex Instruction Set Computers (CISC) processors. Explain the importance and use of pipelining and registers in RISC processors. Use the terminology associated with OOP. Write program code to solve problems by designing appropriate classes and making use of OOP techniques. 	No. of Worksheets and Assignments completed: 3 No. of Math problems / No. of Sums practices / Exercises completed: N/A No of Lab classes held (if applicable): and Topics Covered: No. of unit tests/class tests done: 2
Subject	Chapter	Topics Covered	Additional Information
Subject	Ch 16: Graphics Creation (Vector Images)	(Vector Images) create a vector image that meets the requirements of its intended application and audience	No. of Worksheets and Assignments completed: 3 No. of Math problems / No. of Sums practices /
IT	Ch 13 : New Emerging technologies	(biometrics, cloud computing, computerassisted translation, Holographic and 4th generation optical data storage,)	Exercises completed: Past paper practice of P3 & P4
	Ch 19: Animation	Types of Animation, Stage, Importing and creating vector objects, Library and symbols, Importing an image, Text, Layers, Timeline, Key frame, Timings and frame rate, inbetween animation, Motion	No of Lab classes held (if applicable): All Lab class and Topics Covered: No. of unit tests/class tests done: 2
Subject	Chapter	Topics Covered	Additional Information
Law	Chapters: ITCLR, Consideration, Private Nuisance, Rylands v Fletcher	Paper 3: ITCLR, Capacity, Paper 4: Nuisance, Rylands and Vicarious Liability, Past Paper solving	3 Worksheets and 1 Assignment completed
Subject	Chapter	Topics Covered	Additional Information

	hapter 38- Government policies to achieve efficient resource allocation and correct market failure	• explain how a range of tools can be used to correct the different forms of market failure including specific and ad volerum taxes, subsidies, price controls, production quotas, prohibition and licences, regulations and deregulations, direct provision, pollution permits, property rights, privatization. * evaluate the effectiveness of tools used to correct market failure. * define the meaning of government failure in microecomics intervention. * explain the causes and consequences of government failure.	
	Chapter 39- Equity ans edistribution of income and wealth	 explain the difference between equity and equality explain the difference between equity and efficiency analyse the distinction between absolute poverty and relative poverty describe the poverty trap. 	
g	Chapter 40- Labour market forces and overnment intervention	 define the meaning of marginal revenue product (MRP) explain why the demand for labour is a derived demand. analyse factors affecting demand and supply for the labour in a firm or in occupation. analyse the causes of shifts and movement along the demand curve and supply curve analyse the wage determination in perfect markets including wage rate and employment in labour market. explain the determinants for wage differential in labour market. define economic rent and trasfer earnings and also evaluate the factors that affect economic rent and transfer earnings. 	
c	Chapter 41- The circular flow of income	 explain the meaning of multiplier. calculate the multiplier using formula for closed economy and open market economy. calculate the average and marginal propensity to consume, save and import, average and marginal rate of tax. calculate the effect of changing aggregate demad on national income using multiplier. explain the determinants of investment and difference between autonomous and induced investment. explain the meaning of accelerator analyse the determinants of government spending and net exports, inflationary and deflationary gap. 	

		• explain the short-run production function, including:	
		fixed and variable factors of production; total product,	No. of Worksheets and Assignments completed:
Economics		average product	2
Leononnes		and marginal product; the law of diminishing returns (law	
		of variable proportions)	No. of unit tests/class tests done: 2
		• calculate total product, average product and marginal	
		product	
		• explain the short-run cost function, including: fixed costs	
		(FC) and variable costs (VC); total, average and marginal	
		costs	
		(TC, AC, MC); the shape of short-run average cost and	
		marginal cost curves	
		 calculate fixed costs and variable costs, and total, 	
	Chapter 34 - Types of	average and marginal costs	
	cost,	• explain the long-run production function, including no	
	revenue and profit,	fixed factors of production and returns to scale	
	short-run and longrun	• explain the long-run cost function, including the shape of	
	production	the long-run average cost curve and the minimum efficient	
		scale	
		analyse the relationship between economies of scale	
		and decreasing average costs	
		explain internal economies of scale and external	
		economies of scale	
		• explain internal diseconomies of scale and external	
		diseconomies of scale	
		• define the meaning of total, average and marginal	
		revenue	
		calculate total, average and marginal revenue	
		• define the meaning of normal, subnormal and	
		supernormal profit	
l		calculate supernormal and subnormal profit	

	Chapter 42- Economics growth and sustainability	 explain the difference between actual and potential economics growth in national output. explain the causes and consequences of positive and negative output gap. describe the phase of business cycle. analyse the causes of business cycle explain the role automatic stabilizers evaluate the effectiveness of policies to promote economic growth. explain the meaning of inclusive economic growth, meaning of sustainable economic growth explain the difference between using and conserving resources analyse the impact of economic growth on the environment and climate change. 	
Subject	Chapter	Topics Covered	Additional Information
Psychology			No. of Worksheets and Assignments completed: 3 No. of Math problems / No. of Sums practices / Exercises completed: N/A No of Lab classes held (if applicable): and Topics Covered: No. of unit tests/class tests done: 2
Chapter	Chapter	Topics Covered	Additional Information

	To be able to understand and use the terms	
	displacement, amplitude, period, frequency, angular frequency and phase difference in the context of oscillations	
	Use $a = -\omega 2x$ and recall and use, as a solution to this equation, $x = x0 \sin \omega t$	
	Use the equations $v = v0 \cos \omega t$ and $v = \pm \omega (x02 - x2)$.	
	Analyse and interpret graphical representations of the variations of displacement, velocity and acceleration for simple harmonic motion	
6 Oscillations	Describe the interchange between kinetic and potential energy during simple harmonic motion	
	To be able to understand that a resistive force acting on an oscillating system causes damping.	
	To be able to understand and use the terms light, critical and heavy damping and sketch displacement– time graphs illustrating these types of damping	
	To be able to understand that resonance involves a maximum amplitude of oscillations and that this	No. of Worksheets and Assignments completed:
	occurs when an oscillating system is forced to oscillate at its natural frequency	3 No. of Math problems / No. of Sums practices / Exercises completed: N/A

	3. Temperature	To be able to understand that (thermal) energy is transferred from a region of higher temperature to a region of lower temperatureTo be able to understand that regions of equal temperature are in thermal equilibriumUnderstand that a physical property that varies with temperature may be used for the measurement of temperature and state examples of such propertiesUnderstand that the scale of thermodynamic temperature does not depend on the property of any particular substance.Convert temperatures between kelvin and degrees Celsius and recall that T / K = θ / °C + 273.15.Understand that the lowest possible temperature is zero kelvin on the thermodynamic temperature scale and that this is known as absolute zeroTo be able to define and use specific heat capacity	No of Lab classes held (if applicable): and Topics Covered: No. of unit tests/class tests done: 2
		To be able to define and use specific heat capacity	
Physics		To be able to distinguish between specific latent heat of fusion and specific latent heat of evaporation	
		To be able to understand that amount of substance is an SI base quantity with the base unit mol	

4 Ideal gases	To be able to use molar quantities where one mole of any substance is the amount containing a number of particles of that substance equal to the Avogadro constant N(A) To be able to make understand that a gas obeying pV \propto T, where T is the thermodynamic temperature, is known as an ideal gas. Recall and use the equation of state for an ideal gas expressed as pV = nRT, where n = amount of substance (number of moles) and as pV = NkT, where N = number of molecules To be able to recall that the Boltzmann constant k is given by k = R / NA To be able state the basic assumptions of the kinetic theory of gases To be able explain how molecular movement causes the pressure exerted by a gas and derive and use the relationship pV = 1/3Nm <c2>, where <c2> is the mean-square speed To be able compare pV = 1/3Nm<c2> with pV = NkT to deduce that the average translational kinetic energy of a molecule is 3/2 kT To be able to understand that internal energy is determined by the state of the system and that it can be expressed as the sum of a random distribution of kinetic and potential energies associated with the molecules of a system To be able relate a rise in temperature of an object to an increase in its internal energy</c2></c2></c2>	No. of Worksheets and Assignments completed: 3 No. of Math problems / No. of Sums practices / Exercises completed: N/A No of Lab classes held (if applicable): and Topics Covered: No. of unit tests/class tests done: 2
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	To be able recall and use $W = p\Delta V$ for the work done when the volume of a gas changes at constant pressure and understand the difference between the work done by the gas and the work done on the gas.	
5 Thermodynamics	To be able recall and use the first law of thermodynamics $\Delta U = q + W$ expressed in terms of the increase in internal energy, the heating of the system (energy transferred to the system by heating) and the work done on the system.	