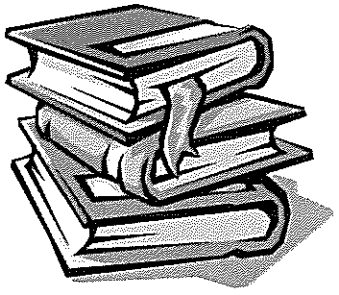
DELHI PUBLIC SCHOOL INTERNATIONAL TEMA, GHANA

AS-LEVEL SYLLABUS 2020 - 2021



NAME: _____

DPS INTERNATIONAL, GHANA

Class: AS Level Subject: Physics (9702)

Teachers: Prince Peprah & Kennedy Aboagye

	August	September	October	November	December
First term	Physical quantities and units Current of electricity	Measurement techniques Current of electricity	Kinematics Electric fields	Dynamics, Forces, density D.C. circuits	Pressure, Work, energy and power Particle and nuclear phys
	January	February	April	May	June
Second term	Waves Particle and nuclear physics	Superposition Motion in a circle	Gravitational fields	Ideal gases, Temperature and Thermal properties of materials	

DPS INTERNATIONAL, GHANA

CLASS: AS LEVEL SUBJECT: CHEMISTRY TEACHERS NAME: Daniel Osei – Danso

	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
TERM 1	-Moles and Equations	-Atomic Structure -Electrons in Atoms	-Chemical Bonding -Rates of reaction	-Equilibrium -Introduction to Organic Chemistry	-Alkane -Alkenes
	JANUARY	**FEBRUARY**	**MARCH**	**APRIL**	**MAY**
TERM 2	-Redox reactions -Enthalpy changes	-Periodicity -Group 2 -Group 17	-Nitrogen and Sulfur -Halogenoalkanes		

HOD Sign

DPS INTERNATIONAL, GHANA

Class: AS LEVEL BIOLOGY **Subject: BIOLOGY** **Teacher Name: NATHANIEL DUMASHIE**

	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
First Term	1. Cell structure	2. Biological molecules	3. Enzymes	4. Cell membranes and transport	1. The mitotic cell cycle. 2. Nucleic acids and protein synthesis
	JANUARY	**FEBRUARY**	**APRIL**	**MAY**	**JUNE**
Second Term	1. Transport in plants	2. Transport in mammals	Gas exchange and smoking	3. Infectious diseases	Immunity

22/09/20

DPS INTERNATIONAL, GHANA
AS – LEVEL [PURE MATHEMATICS 1 (9709) SYLLABUS]
(2020/2021)

TOPIC	MONTH	CONTENT
Chapter 1 Quadratics	**September**	• Completing the square • Using Discriminant • Solving quadratic equations and inequalities • Solving simultaneous equations • Other quadratic equations
Chapter 2 Functions	**October**	• Simple and Composite functions and their ranges • One – to – One functions and inverses • Graphical relations between functions and their inverse • Understanding and use of transformations.
Chapter 3 Coordinate Geometry	**October**	• Finding equations of straight lines • Finding equations of circles • Problems involving lines and circles • Graphs
Chapter 4 Circular Measure	**November**	• Radian measure • Length of arc and area of sector
Chapter 6 Series	**November**	• Binomial expansion. • Arithmetic and Geometric progression and sum of terms • Convergence and Sum to infinity of geometric progression
All Chapters	**December**	• Revision

(TERM 1 EXAMINATION) Tuesday 3rd December, 2020

Topic	January	• Term 1 Examination
Chapter 5 Trigonometry	**February**	• Graph of trigonometric functions • Finding exact values • Using trigonometric identities • Solutions for simple trigonometrical equations
Chapter 7 Differentiation	**March**	• Gradient function, first and second derivative • Rules of differentiation • Application of differentiation • Curve Sketching
Chapter 8 Integration	**April**	• Understanding Integration • Evaluating the constant of integration • Evaluate definite integrals • Finding the area bounded by a curve and volume of revolution.
Revision	**May**	• All Chapters

(TERM 2 EXAMINATION) Thursday 3rd June, 2021 (9709 – P1 syllabus)

DELHI PRIVATE SCHOOL INTERNATIONAL, GHANA
AS – LEVEL (STATISTICS AND PROBABILITY 1 (9709) SYLLABUS)
(2020/2021)

		TERM 1
TOPIC	**MONTH**	**CONTENT**
Chapter 1 Representation of Data	**September**	• Presenting raw data • Advantages and Disadvantages of data presentation methods • Stem and Leaf Diagram, Box and Whisker Plots, Histograms and Cumulative Frequency graphs • Measures of Central tendency and Variations • Calculating Mean and Standard Deviation (including grouped data)
Chapter 2 Permutations and Combinations	**October**	• Understanding Permutations and Combinations • Arrangement of objects in line (including those involving repetition and restrictions)
Chapter 3 Probability	**November**	• Evaluating probabilities of simple cases • Addition and Multiplications of Probabilities • Mutually Exclusive and Independent Events • Conditional Probabilities
All Chapters	**December**	• Revision

(TERM 1 EXAMINATION)

	January	• **Term 1 Examination**
Chapter 4 Discrete Random Variables	**February**	• Probability Distribution table • Calculating **E(X)** and **Var(X)**. • Geometric and Binomial Distributions • Use of expectation of Geometric Distribution • Use of Expectation and Variance of Binomial Distribution •
Chapter 5 The Normal Distribution	**March**	• Understanding normal distributions and use of normal distribution tables. • Standardisation of normal variables. • Normal Approximation of Binomial Distributions. • Other normal approximations.
Revision	**April & May**	• All Chapters

(TERM 2 EXAMINATION) Thursday 3rd June, 2021 (9706 - P5 syllabus)

DELHI PUBLIC SCHOOL INTERNATIONAL, GHANA
AS LEVEL (PURE MATHEMATICS 9709- STATISTICS 2) SYLLABUS)
(2020/2021)

		TERM 1	
TOPIC	**Month**	**CONTENT**	**ASSESSMENT**
POISSON DISTRIBUTION	September	Candidates should be able to: use formulae to calculate probabilities for the distribution Notes and examples use the fact that if then the mean and variance of X are each equal to Proofs are not required. Understand the relevance of the Poisson distribution to the distribution of random events, and use the Poisson distribution as a model use the Poisson distribution as an approximation to the binomial distribution where appropriate. The conditions that n is large and p is small should be known; $n > 50$ and $np < 5$, approximately. Use the normal distribution, with continuity correction, as an approximation to the Poisson distribution where appropriate.	• **Class Test** • **Assignment**
CONFIDENCE INTERVAL	**October**	confidence interval for mean using normal distribution z test FOR large samples Confidence interval for proportion	• **Class Test** • **Assignment**
HYPOTHESIS TESTING	November	**Hypothesis tests** Candidates should be able to: ·• understand the nature of a hypothesis test, the difference between one-tailed and two-tailed tests, and the terms null hypothesis, alternative hypothesis, significance level, rejection region formulate hypotheses and carry out a hypothesis test in the context of a single observation from a population which has a binomial or Poisson	• **Class Test** • **Assignment**
HYPOTHESIS TESTING	**December**	formulate hypotheses and carry out a hypothesis test concerning the population mean in cases where the population is normally distributed with known variance or where a large sample is used ·• understand the terms Type I error and Type II error in relation to hypothesis tests ·• calculate the probabilities of making Type I and Type II errors in specific situations involving tests based on a normal distribution or direct evaluation of binomial or Poisson probabilities	• **Class Test** • **Assignment**
	January	Revision	• **Class Test** • **Assignment**

Term 2			
CONTINUOUS RANDOM VARIABLE	**February**	understand the concept of a continuous random variable, and recall and use properties of a probability density function Notes and examples For density functions defined over a single interval only; the domain may be infinite, use a probability density function to solve problems involving probabilities, and to calculate the mean and variance of a distribution	• **class test** • **assignment**
LINEAR COMBINATION OF RANDOM VARIABLES	**March**	use, when solving problems, the results that $E(aX + b) = aE(X) + b$ and $Var(aX + b) = a^2 Var(X)$ $E(aX + bY) = aE(X) + bE(Y)$ $Var(aX + bY) = a^2 Var(X) + b^2 Var(Y)$ for independent X and Y if X has a normal distribution then so does $aX + b$ if X and Y have independent normal distributions then $aX + bY$ has a normal distribution if X and Y have independent Poisson distributions then $X + Y$ has a Poisson distribution	• **Class Test** • **Assignment**
SAMPLING AND ESTIMATION	**April**	understand the distinction between a sample and a population, and appreciate the necessity for randomness in choosing samples Notes and examples •• explain in simple terms why a given sampling method may be unsatisfactory	• **class test** • **Assignment**
	MAY	REVISION	
	June	**REVISION**	

JUNE TERM 1 (ALL CHAPTERS) 50 MARKS

DPS INTERNATIONAL GHANA

YEAR PLAN 2020-2021
AS LEVEL COMPUTER SCIENCE

Month	Week	No. of Periods	Name of the Chapter (Topic)
TERM 1			
AUGUST, 2020 TWD-10	17-21		Not in school
	24-28	8	Information representation
SEPTEMBER, 2020 TWD-24	31-04	8	Information representation
	07-11	8	Information representation
	14-18	8	Programming - Programming Basics -
	22-25	8	Programming - Programming constructs
OCTOBER, 2020 TWD-25	28-02	8	Programming - Structured Programming
	05-09	8	Communication
	12-16	8	Communication
	19-23	8	Hardware
	26-30	8	Processor Fundamentals
NOVEMBER, 2020 TWD-20	02-06	8	System Software
	09-13	8	Security, privacy and data integrity
	16-20	8	Database Concepts
	23-27	8	Database Management System (DBMS)
DECEMBER, 2020 TWD-13	30-03	8	Data Definition Language (DDL) and Data Manipulation Language (DML)
	07-11	8	Algorithm Design and Problem-Solving - Computational Thinking Skills - Algorithms
	14-17	8	Programming - Structured Programming
CHRISTMAS BREAK (DEC 18 - JAN 10)			
JANUARY, 2021 TWD- 18	11-15	8	Database project
	18-21	8	REVISION

Teacher's name: Bright Ahiati

	25-29	END OF TERM 1 EXAMS (JAN 22 - FEB 09)	
FEBRUARY , 2021 TWD-21	01-05		
	08-12		
TERM 2			
	15-19		Term 1 exam discussion
	PARENT-TEACHER MEETING(SAT 20th Feb)		
	22-26	8	Data Types and structures
MARCH, 2021 TWD- 19	01-05	8	File Processing and Exception Handling
	09-12	8	Introduction to abstract datatypes
	15-19	8	Ethics and Ownership
	22-26	8	Software Development
	29-31	8	Data Representation
APRIL,2021 TWD-19	EASTER BREAK (APR 01-05)		
	06-09	8	Data Types and structures - Introduction to Abstract Data Types (ADT)
	12-16	8	Communication and internet technologies
	19-23	8	Hardware and Virtual Machines - Processers, Parallel Processing and Virtual Machines
	26-30	8	Hardware and Virtual Machines - Boolean Algebra and Logic Circuits
MAY,2021 TWD-19	04-07	8	System Software - Purposes of an Operating System (OS)
	10-14	8	System Software - Translation Software
	17-21	8	System Software - Translation Software
	24-28	8	Security
JUNE,2021 TWD-20	31-04	8	Security project
	07-11	END OF TERM 2 EXAMS (JUNE 09 - JUNE 24)	
	14-18		
	21-25		

Teacher's name: Bright Ahiati

DPS INTERNATIONAL, GHANA

CLASS: AS LEVEL

SUBJECT: LITERATURE IN ENGLISH (9695) **TEACHER NAME: LINETTE FERNANDES**

	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
First term	**Paper 1** **Much Ado About Nothing - William Shakespeare** **ACT 1** Scene 1	**Paper 1** **Much Ado About Nothing - William Shakespeare** **ACT 1** Scene 2 & 3 **ACT 2** Scene 1,2 &3 **ACT 3** Scene 1,2 & 3	**Paper 1** **Much Ado About Nothing - William Shakespeare** **ACT 3** Scene 3 & 4 **ACT 4** Scene 1 Scene 2 **ACT 5** Scene 1& 2	**Paper 1** **Much Ado About Nothing - William Shakespeare** **ACT 5** Scene 3 Scene 4	**Paper 2** **Adventures of Huckleberry Finn- Mark Twain** Chapters 1 -12 **Paper 2** Unseen Text
	JANUARY	**FEBRUARY**	**MARCH**	**APRIL**	**MAY**
Second term	**Paper 2** **Adventures of Huckleberry Finn- Mark Twain** Chapters 13 -25 **Paper 2** Unseen Text	**Paper 2** **Adventures of Huckleberry Finn- Mark Twain** Chapters 14 -30 Chapters 31 - 43	**Paper 1** **Selected Poems** **Songs of Ourselves Volume 2**	**Paper 4** **Selected Poems – Emily Dickinson**	**REVISION**

DPS INTERNATIONAL, GHANA

Class:____AS LEVEL Subject: ART AND DESIGN Teacher Name: ALEX AMOABENG TWUM

First Term	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
	Introduction to Cambridge A Level Art and Design Syllabus and Assessment Objectives Component 1 course work	**Component 2** - Preparation sheet build up. **Component 3** - Project work and thesis writing. - Exhibition Concept development (Themes)	Creation of mood boards (mind map) - Artist Statement Pen (Dry media) - Techniques and style - Artist Influence The Human Face	The Eye The Nose The Lips The Teeth The Hair Material Exploration	Self Portrait - Acrylic - Gouche - Oil Camicas Preparation Surreal and Abstract Facial (The Face)
Second Term	JANUARY	FEBRUARY	MARCH	APRIL	MAY
	Studio Works Course Works discussion Finals Control test	Public Art - Graphic Art Mural Art - Wall Preparation **Component 2** - 10 preparatory sheets	**Photography** - First hand study research Independent Shadow Work Thesis Topic	Presentation approval. Field trip research to Kumasi and Winneba Artist shadow interviews	Exhibitions and presentation of all the various Component

DPS INTERNATIONAL, GHANA

Class: AS LEVEL COM/SCI Subject: GEOGRAPHY Teacher Name: MILLS LARYEA

	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
First Term	1. Population. *Solve A level past questions on the topic*	1. Population 2. Rocks and weathering *Solve A level past questions on the topic*	2. Rocks and weathering 3. Migration *Solve A level past questions on the topic*	3. Migration 4. Hydrology and Fluvial geomorphology. *Solve A level past questions on the topic*	5. Hydrology and fluvial geomorphology. *Solve A level past questions on the topic*
	JANUARY	**FEBRUARY**	**APRIL**	**MAY**	**JUNE**
Second Term	5. Hydrology and fluvial geomorphology. 6. Settlement dynamics *Solve A level past questions on the topic*	6. Settlement dynamics 7. Atmosphere and weather *Solve A level past questions on the topic*	10. Atmosphere and weather. *Solve A level past questions on the topic*	11. Tropical environment *Solve A level past questions on the topic*	Revision on AS level topics *Solve A level past questions on the topic*

DELHI PRIVATE SCHOOL INTERNATIONAL, GHANA
AS – LEVEL (FURTHER PURE MATHEMATICS (9231) SYLLABUS)
(2020/2021)

		TERM 1	
TOPIC	**MONTH**	**CONTENT**	**ASSESSMENT**
Chapter 1 & 6 Matrices	**September**	• Matrix Addition, Subtraction and Multiplication • Determinant and Inverse of Matrices • Standard Results • Transformation Matrices • Invariant points and lines	• **Class Test** • **Assignment**
Chapter 3 Roots of Polynomials	**October**	• Quadratic Equations • Cubic Equations • Quartic Equations • Method of Substitution	• **Class Test** • **Assignment**
Chapter 2 Summation of Series and Proof by Induction	**November**	• Using standard results • Method of differences • Converging series and sum to infinity • Standard results • Number Divisibility	• **Class Test** • **Assignment**
All Chapters	**December**	• Revision	• **Class Test** • **Assignment**

(TERM 1 EXAMINATION)

Term 2			
.	**January**	• **Term 1 Examination**	
Chapter 4 Rational Functions and Graphs	**February**	• Determining asymptotes (Vertical, Horizontal and Oblique). • Sketching simple rational functions • Understanding relationship between graphs.	• **Class Test** • **Assignment**
Chapter 5 Polar Coordinates	**March**	• Cartesian and Polar forms • Sketching Polar Curves • Least/Greatest values • Area covered by a polar curve	• **Class Test** • **Assignment**
Chapter 7 Vectors	**April & May**	• Equation of planes, Vector and Cartesian form • Vector products • Lines and Planes	• **Class Test** • **Assignment**

(TERM 2 EXAMINATION) Thursday 10th June, 2021 (FP1 syllabus)

DPS INTERNATIONAL, GHANA

Class: AS LEVEL COM Subject: BUSINESS Teacher Name: KOFI BOTCHWEY JNR

	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
First Term	1.Enterprise • The nature of business activity • The role of the entrepreneur • Social enterprise	1. Business structure • Economic sectors • Legal structures 2. Size of business • Measurements of business size • Significance of small businesses • Internal growth 3. Business objectives • Business objectives in the private sector and public sector • Objectives and business decisions	1. Stakeholders in a business • The importance and influence of stakeholders on business activities 2. Management and leadership • Choice of leadership style • Emotional Intelligence / • Emotional quotient (EQ) 3. Motivation • Motivation theories • Financial motivators, nonfinancial motivators	1. Human resource Management (HRM) • Recruitment and selection • Job descriptions, person specifications, job advertisements • Employment contracts • Staff training 2. Marketing • Features of markets: location, size, share, competitors, growth	1. Market research • Primary and secondary research • Methods of information gathering • Sampling methods • Market research results • Cost effectiveness 2. The marketing mix • The elements of the marketing mix (the 4Ps) • The role of the customer (the 4Cs)

	JANUARY	FEBRUARY	MARCH	APRIL	MAY
Second Term	1.The nature of operations • Inputs, outputs and the transformation process • Effectiveness, efficiency and productivity • Value added • Capital versus labour intensity	1.Operations planning • Operations decisions • Flexibility and innovation • Operations methods: job, batch, flow, mass customisation • Location • Scale of operation 2. Inventory management • Purpose, costs and benefits of inventory • Managing inventory	1.The need for business Finance • Start up capital, capital for expansion • Working capital 2. Sources of finance • Legal structure and sources of finance • Short term finance and long term finance • Internal sources	1. Costs • Cost information • Uses of cost information • Break-even analysis 2. Accounting fundamentals • Income statement • Statement of financial position • Liquidity ratios • Profitability ratios • Practical use of ratio analysis • Main users of accounts • Limitations of published accounts	1. Forecasting ai managing Cash flows • Purposes of cash flow forecasts • Cash flo forecasts in practic • Methods of improvin cash flo

DPS INTERNATIONAL, GHANA

TEACHING SYLLABUS 2020/2021

CLASS: AS COMMERCE **Subject**: ACCOUNTING **Teacher Name**: ERNEST SELASI

TERM	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	1. Meaning & Purpose of Accounting. 2. Qualitative Characteristics of Accounting Information	1. Double Entry System for Assets, Liabilities, Capital, Revenues and Expenses. 2. Books of Prime Entry and Types of Ledgers	1. The Trial Balance and its Limitations. 2. Financial Statements of a sole proprietorship. 3. Prepayments and Accruals	1. Accounting for non current assets. 2. Bad debts and Provision for bad debts. 3. Accounting Concepts.	1. Bank Reconciliation Statement. 2. Control Accounts 3. Correction of Errors and Suspense Accounts.
TERM	**JANUARY**	**FEBUARY**	**MARCH**	**APRIL**	**MAY**
2	1.Incomplete Records 2. Accounting for Clubs and Societies.	1.Valuation of Closing Inventory 2. Financial Statements of Partnership Firms.	1. Accounting for Partnership Changes. 2. Accounting for Manufacturing Firms	1. Financial Statements Limited Companies. 2. Ratio Analysis and Interpretation of Financial Statements	1. Introduction to Management Accounting

DPS INTERNATIONAL, GHANA

Class: **AS LEVEL** Subject: **SOCIOLOGY (9699)** Teacher Name: **DAVID BOIEH**

FirstTerm	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
	METHODS OF RESEARCH	METHODS OF RESEARCH	SOCIALIZATION AND THE CREATION OF SOCIAL IDENTITY	THE FAMILY	THE FAMILY
SecondTerm	**JANUARY**	**FEBRUARY**	**MARCH**	**APRIL**	**MAY**
	EDUCATION/ TERM 1 EXAM	EDUCATION	GLOBALIZATION	GLOBALIZATION / MEDIA	MEDIA

DPS INTERNATIONAL, GHANA

Class: AS LEVEL **Subject: ECONOMICS (9708)** **Teacher Name: LARBI EMMANUEL**

	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
FirstTerm	AS LEVEL CHAPTER 1: BASIC ECONOMIC IDEAS AND RESOURCE ALLOCATION.	AS LEVEL CHAPTER 2: THE PRICE SYSTEM AND THE MICROECONOMY.	AS LEVEL CHAPTER 2: THE PRICE SYSTEM AND THE MICROECONOMY. AS LEVEL CHAPTER 3: GOVERNMENT MICROECONOMIC INTERVENTION.	AS LEVEL CHAPTER 3: GOVERNMENT MICROECONOMIC INTERVENTION. AS LEVEL CHAPTER 4: THE MACROECONOMY.	AS LEVEL CHAPTER 4: THE MACROECONOMY. AS LEVEL CHAPTER 5: GOVERNMENT MACRO INTERVENTION.
	JANUARY	**FEBRUARY**	**MARCH**	**APRIL**	**MAY**
SecondTerm	A LEVEL CHAPTER 1: BASIC ECONOMIC IDEAS AND RESOURCE ALLOCATION.	A LEVEL CHAPTER 2: THE PRICE SYSTEM AND THE MICROECONOMY	A LEVEL CHAPTER 3: GOVERNMENT MICROECONOMIC INTERVENTION.	A LEVEL CHAPTER 3: GOVERNMENT MICROECONOMIC INTERVENTION.	A LEVEL CHAPTER 3: GOVERNMENT MICROECONOMIC INTERVENTION.

Class. As and A Level Subject. Games Teacher Name.

	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
TERM 1	**FOOTBALL** Playing from the back and pressing **TABLE TENNIS** Forehand loop block **HANDBALL** Passing and receiving	**FOOTBALL** Switching play **TABLE TENNIS** Forehand smash and backhand loop **HANDBALL** Keeping possession with the ball (choice of pass, screening opponent)	**FOOTBALL** Retaining possession and Creating space to receive a pass and shooting **TABLE TENNIS** Backhand chop, basic ball control and service **HANDBALL** Shooting (involvement of shooting combinations	**FOOTBALL** Crossing and finishing **TABLE TENNIS** Backhand drive and forehand drive **HANDBALL** Blocking and Tackling (marking system)	**FOOTBALL** **Assessment** (mini Game) **TABLE TENNIS** ASSESSMENT Mini Game **HANDBALL** ASSESSMENT Mini game
	JANUARY	FEBRUARY	MARCH	APRIL	MAY
TERM 2	**TENNIS** Grip, Racquet and ball control and footwork **BADMINTON** The smash **VOLLEYBALL** Passing (three touch rally	**TENNIS** Forehand and backhand groundstroke **BADMINTON** 4 types of service **VOLLEYBALL** Digging and footwork	**TENNIS** Maintaining a rally, tennis movement and court positioning **BADMINTON** Drop shot and backhand drop **VOLLEYBALL** Service	**TENNIS** Service and volleys **BADMINTON** High stroke **VOLLEYBALL** Setting, spiking and blocking	**TENNIS** Assessment (mini game) **BADMINTON** Mini game **VOLLEYBALL** Assessment (mini game)

DPS INTERNATIONAL, GHANA

Class: AS LEVEL BIOLOGY **Subject: BIOLOGY** **Teacher Name: NATHANIEL DUMASHIE**

	AUGUST	SEPTEMBER		OCTOBER	NOVEMBER	DECEMBER
First Term	Cell structure	Biological molecules		Enzymes	Cell membranes and transport	The mitotic cell cycle. Nucleic acids and protein synthesis
	JANUARY	**FEBRUARY**	**MARCH**	**APRIL**	**MAY**	**JUNE**
Second Term	Examinations	Transport in plants	Transport in mammals	Gas exchange and smoking	Infectious diseases	Immunity

DPS INTERNATIONAL, GHANA

YEAR PLAN FOR SESSION 2020-21

Class: AS LEVEL **Subject: IT** **Teacher Name: Mr. Nicholas Ninson**

First Term	**AUGUST**	**SEPTEMBER**	**OCTOBER**	**NOVEMBER**	**DECEMBER**
	1. DATA, INFORMATION, KNOWLEDGE AND PROCESSING	1. DATA, INFORMATION, KNOWLEDGE AND PROCESSING 2. HARDWARE AND SOFTWARE	3. MONITORING AND CONTROL 4. E-SECURITY 5. SPREADSHEETS	5. SPREADSHEETS 6. MODELLING	6. MODELLING 7. MAIL MERGE
Second Term	**JANUARY**	**FEBRUARY**	**MARCH**	**APRIL**	**MAY**
	ALL THEORY AND PRACTICAL REVISION	8. IT IN SOCIETY 9. THE DIGITAL DIVIDE	10. ALGORITHMS AND FLOW CHARTS 11. EXPERT SYSTEMS	12. EMERGING TECHNOLOGIES 13. DATABASE AND FILE CONCEPTS	13. DATABASE AND FILE CONCEPTS 14. SOUND AND VIDEO EDITING

DPS INTERNATIONAL, GHANA

Class: AS LEVEL **Subject:** MECHANICS **Teacher Name:** SIR DANIEL, SIR GEMA

	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
First Term	MOMENTUM definition of linear momentum and show understanding of its vector nature	MOMENTUM use conservation of linear momentum to solve problems that may be modelled as the direct impact of two bodies.	MOMENTUM direct impact of two bodies where the bodies coalesce on impact.	FORCE AND EQUILIBRIUM vector nature of force, and find and use components and resultants	FORCE AND EQUILIBRIUM use the principle that, when a particle is in equilibrium, the vector sum of the forces acting is zero, or equivalently, that the sum of the components in any direction is zero
	JANUARY	**FEBRUARY**	**MARCH**	**APRIL**	**MAY**
Second Term	FORCE AND EQUILIBRIUM concepts of limiting friction and limiting equilibrium, recall the definition of coefficient of friction, and use the relationship $F R = n$ or $F R G n$, as appropriate	**KINEMATICS OF MOTION IN A STRAIGHT LINE** concepts of distance and speed as scalar quantities, and of displacement, velocity and acceleration as vector quantities	**KINEMATICS OF MOTION IN A STRAIGHT LINE** differentiation and integration with respect to time to solve simple problems concerning displacement, velocity and acceleration	**NEWTON'S LAWS OF MOTION** Newton's laws of motion to the linear motion of a particle of constant mass moving under the action of constant forces, which may include friction, tension in an inextensible string and thrust in a connecting rod	**Energy, work and power** he concept of the work done by a force, and calculate the work done by a constant force when its point of application undergoes a displacement not necessarily parallel to the force $W = F d \cos\alpha$