DELHI PUBLIC SCHOOL INTERNATIONAL TEMA, GHANA



A-LEVEL SYLLABUS 2020 - 2021



NAME:	



Class: A Level

Subject: Physics (9702)

Teachers: Prince Peprah

	August	September	October	November	December
First term	Capacitance	Electronics	Electromagnetic Induction	Alternating currents	Quantum physics
	January	February	April	May	June
Second term	Nuclear physics	Medical imaging	Revision	Revision	



CLASS: A LEVEL SUBJECT: CHEMISTRY TEACHERS NAME: Daniel Osei - Danso

	AUGUST	<u>SEPTEMBER</u>	<u>OCTOBER</u>	NOVEMBER	DECEMBER
TERM 1	Entropy and Gibbs	-Further Aspects of equilibria.	- Carboxylic acids and their derivatives.	-Electrochemistry	-Transition Elements
		- Benzene and its compounds	-Organic Nitrogen Compounds	-Reaction Kinetics	
	TANTETATATA	TITIES TO TI A TO TA	BALL DOTT		
	<u>JANUARY</u>	FEBRUARY	MARCH		
	-				
7	Polymerisati	-Organic			
\S	on	Synthesis			
TERM	-Analytical Chemistry				

HOD Sign



Class: A LEVEL Subject: BIOLOGY Teacher Name: NATHANIEL DUMASHIE

		AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
First Term	1.		2. Immunity	3. Energy and respiration4. Photosynthesis	5. Homeostasis6. Control and coordination	5. Inherited change 6. Selection and evolution
		JANUARY	FEBRUARY	APRIL	MAY	JUNE
Second Term	3.	Biodiversity, classification and conservation Gene technology	Solve past questions on the topic	Solve past questions on the topic	Solve past questions on the topic	Solve past questions on the topic

22/09/20

DELHI PRIVATE SCHOOL INTERNATIONAL, GHANA A – LEVEL P3 (PURE MATHEMATICS (9709) SYLLABUS)

(2020/2021)

		TERM 1	
TOPIC	MONTH	CONTENT	ASSESSMENT
Chapter 3 TRIGNOMETRY	September	 Trigonometry identity Reciprocal trig functions and their sketch e.g sec.cosec ,cot Compound angles Derivation of the Double angles formulas The forms rcos(θ ± α) , The forms rcos(θ ± α) General solution of trig equations 	 Class Test Assignment
Chapter 4 DIFFRENTIATION	October	 Product rule The quotient rule Differentiating natural logarithms and exponentials Differentiating trigonometrical functions Differentiating functions implicitly Parametric equations & differentiation 	 Class Test Assignment
Chapter 5 INTEGRATION	November	 Integration Integrals involving the exponential function ♮ logarithm function Integrals involving trig functions 	• Class Test • Assignment
CHAPTER 6 NUMERICAL SOLUTION OF EQUATION	December	 Interval estimation ,change of sign methods Fixed point iteration 	Class TestAssignment

(TERM 1 EXAMINATION)



		Term 2	
•	January	Term 1 Examination	
Chapter 7 & Chapter 8 Further algebra & calculus	February	 The general binomial expansion Partial fraction Partial fraction with binomial expansion Differentiation of tan inverse Integration by: a. Substitution b. Partial fraction c. By parts General integration 	• Class Test • Assignment
Chapter 11 Complex numbers	February	 Working with complex numbers Sets of points in an argand diagram The modulus argument form of complex numbers and polar forms Complex exponents and equations 	Class TestAssignment

Chapter 7 Differential equations	March	 Forming differential equations from rates of change Solving differential equation 	Class TestAssignment
		•	

DELHI PRIVATE SCHOOL INTERNATIONAL, GHANA A- LEVEL (STATISTICS AND PROBABILITY 1 (9709) SYLLABUS)

(2020/2021)

		TERM 1	
TOPIC	MONTH	CONTENT	ASSESSMENT
Chapter 4 Discrete Random Variables	September	 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 	 Class Test Assignment
Chapter 5 The Normal Distribution	OCTOBER	 Understanding normal distributions and use of normal distribution tables. Standardisation of normal variables. 	Class TestAssignment
Chapter 5 The Normal Distribution	November	 Normal Approximation of Binomial Distributions. Other normal approximations. 	Class TestAssignment
All Chapters	December	REVISION	EXAMINATION

(TERM 1 EXAMINATION)

	TERM 2			
	January	MOCK		
ALL Chapters	February	REVISION	Class TestAssignment	
ALL CHAPTERS	March	REVISION	Class TestAssignment	
Revision	April & May	Chapters All	Class TestAssignment	

MOCK



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

		TERM 1	
TOPIC	Month	CONTENT	ASSESSMENT
CONTINUOUS RANDOM VARIABLE	September	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 TestAssignment
LINEAR COMBINATION OF RANDOM VARIABLES	October	use, when solving problems, the results that $E(aX + b) = aE(X) + b$ and $Var(aX + b) = a2 Var(X) = E(aX + bY) = aE(X) + bE(Y)$ $Var(aX + bY) = a2 Var(X) + b2 Var(Y)$ for independent X and Y if X has a normal distribution then so does $aX + b$ if X and Y have independent Poisson distributions then $aX + bY$ has a Poisson distribution	Class TestAssignment
SAMPLING AND ESTIMATION	November	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 TestAssignment
HYPOTHESIS TESTING	December	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 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



Class Tost
Class Test
Assignment

		Term 2	
	February	REVISION	class testassignment
	March	REVISION	Class TestAssignment
	April	REVISION	class testAssignment
A-11-WMMANA-11-11-1	MAY	EXAMINATION	
	June	EXAMINATION	



YEAR PLAN 2020-2021 A LEVEL COMPUTER SCIENCE

Month	Week	No. of Periods	Name of the Chapter (Topic)
			TERM 1
AUGUST, 2020 TWD-10	17-21	8	Further programming (OOP)
	24-28	8	Data representation
SEPTEMBER, 2020 TWD-24	31-04	8	Communication and Internet technologies
	07-11	8	Boolean algebra and logic circuits
	14-18	8	Processor and computer architecture
	22-25	8	System software
OCTOBER, 2020 TWD-25	28-02	8	System software
	05-09	8	Computational thinking and problem solving
	12-16	8	Computational thinking and problem solving
	19-23	8	Algorithm design methods & Recursion
	26-30	8	Further programming
NOVEMBER, 2020 TWD-20	02-06	8	security
	09-13	8	Monitoring and control systems
	16-20	8	Software development
	23-27	8	Software development
DECEMBER, 2020 TWD-13	30-03	8	REVISION - File Processing
· · · · · · · · · · · · · · · · · · ·	07-11	8	REVISION
	14-17	8	REVISION
		CHRISTMAS B	REAK (DEC 18 - JAN 10)

Teacher's name: Bright Ahiati

11-15	8	REVISION - OOP
		REVISION - BASED ON STUDENTS' REQUEST
25-29	END OF TERM	1 1 EXAMS (JAN 22 - FEB 09)
01-05		
08-12	4	
	0	REVISION - BASED ON TERM 1 EXAM PERFORMANCE
12-13		
	PARENT-	TEACHER MEETING(SAT 20th Feb)
22-26	8	REVISION - BASED ON TERM 1 EXAM PERFORMANCE
01-05	8	REVISION - BASED ON STUDENTS' REQUEST
09-12	8	MOCK
15-19	8	MOCK
22-26	8	MOCK
	8	REVISION - MOCK DISCUSSION
EASTER BREAK (APR 01-05)		
06-09		
12-16		
19-23		
26-30		
04-07		
10-14		
17-21		
24-28		
31-04		
07-11	[END OF TERM 1 EXAMS (JUNE 09 - JUNE 24)
14-18		
21-25	7	
	18-21 25-29 01-05 08-12 TERM 2 15-19 22-26 01-05 09-12 15-19 22-26 29-31 EASTER BREAK (APR 01-05) 06-09 12-16 19-23 26-30 04-07 10-14 17-21 24-28 31-04 07-11	18-21 8 25-29 END OF TERM 01-05 08-12 TERM 2 15-19 8 PARENT- 22-26 8 01-05 8 09-12 8 15-19 8 22-26 8 29-31 8 EASTER BREAK (APR 01-05) 06-09 12-16 19-23 26-30 04-07 10-14 17-21 24-28 31-04 07-11

Teacher's name: Bright Ahiati



CLASS: A LEVEL

SUBJECT: LITERATURE IN ENGLISH (9695)

TEACHER NAME: LINETTE FERNANDES

	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
	Paper 3	Paper 3	Paper 4	Paper 4	Paper 1
	The Winter's Tale – William Shakespeare	The Winter's Tale – William Shakespeare	The Handmaid's Tale – Margaret	The Handmaid's Tale –	Songs of Ourselves – Volume 2
المجمع المجمع	<u>ACT 1</u>	Smartespoure	Atwood	Margaret Atwood	Selected poems
First term	Scene 1	ACT 2 Scene 3	NB: In AS level	Chapters	Paper 4
First	Scene 2 <u>ACT 2</u>	<u>ACT 3</u>	studied till chapter 10	27 – 46	Selected Poems – Emily
	Scene 1 &2	Scene 1,2 &3 <u>ACT 4</u>	Chapters $11-26$	Paper 1 Songs of	Dickinson
		Scene 1,2,3 &4		Ourselves – Volume 2	
		ACT 5 Scene 1,2 &3		Selected poems	
	JANUARY	FEBRUARY	MARCH	APRIL	MAY
nd term	Paper 4 Selected Poems – Emily Dickinson Paper 3	Studied during AS level so it's a revision Paper 1 All My Sons – Arthur Miller	Studied during AS level so it's a revision Paper 2 Unseen Text	OF PAPERS	GE EXAMS
Secon	Revision of the Prose The Glass Menagerie - Tennesse Williams	Paper 2 Small Island – Andea Levy		REVISION O 1, 2, 3	CAMBRIDG



Class: A Level Com

Subject: Economics

Name of teacher: Lucky Kofi Wagba

	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
F I R S T	Basic economic ideas & resource allocation.	3. The price system & micro economy.	5. The price system & micro economy.	7. Government microeconomic interventions.	9. The Macro economy.
T E R M S Y L	2. Basic economic ideas & resource allocation.	4. The price system & micro economy.	6. Government microeconomic interventions.	8. The macro economy.	10. The macro economy.
B U S	Solve A level past questions on the topic.	Solve A level past questions on the topic.	Solve A level past questions on the topic.	Solve A level pass questions on the topic.	Solve A level pass questions on the topic.
	JANUARY	FEBRUARY	MARCH	APRIL	MAY
S E C O N D	11. The macro economy	13. Government macro intervention.	15. Revision of AS level topics.	16. Revision of AS level topics.	Revision of A level top topics.
T E R M	12. Government macro interventions.	14. Government macro intervention.			



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

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



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

	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
	1. Rocks and weathering.	2. Tropical environment	3. Coastal environment	4. Hazardous environment	5. Production, location, change
First Term		3. coastal environment	4. Hazardous environment	5. Production, location, change	
i i	*Solve A level past questions on the topic	*Solve A level past questions on the topic			
	JANUARY	FEBRUARY	APRIL	MAY	JUNE
	6. Environmental management	7. Global interdependence	9. Economic transition	11. Revision on AS level topics	Revision on A level topics
Second Term	7. Global interdependence	8. Hot arid and semi-arid environment			
Sec	*Solve A level past questions on the topic	*Solve A level past questions on the topic			



Class: A LEVEL COM

Subject: BUSINESS Teacher Name: KOFI BOTCHWEY JNR

	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER
First Term	 hierarchical (flat and narrow),matrix Formal and informal Org. Delegation and accountability Control, authority and trust Centralisation, Line and staff 2. Business Communication Purposes of communication Methods of communication Barriers to communication The role of management in facilitating communication 	Elasticity Product development Forecasting Coordinated marketing mix 2. Globalisation and International marketing Globalisation Strategies for international market 3. Capacity utilisation Measurement and significance of capacity Increasing capacity utilization Outsourcing	1. Lean production and quality management Lean production Kaizen Just in Time (JIT) Quality control and assurance Total Quality Management Benchmarking 2. Project management The need for projects and Project management Network diagrams Critical Path Analysis (CPA)	1. External Influences on Business activity Political and lega Economic constraints and enablers Social Technological (including the Internet) Other businesses Demographic Environmental

DECEMBER
 1. What is strategic management?
Understanding what strategic management is
2. Strategic analysis
 SWOT analysis PEST or External Environment analysis
Business vision/mission statement and objectives
Boston Matrix
2. Strategic choice
The Ansoff Matrix
Force Field Analysis

Decision trees

	JANUARY	FEBRUARY	MARCH	APRIL
Second Term	1. Strategic implementation Business plans Corporate culture and strategic implementation Developing a change culture Managing and controlling strategic change Contingency planning and crisis management	1. Contents of published accounts • The income statement • The statement of financial position • Inventory valuation • Depreciation 2. 1. Analysis of published accounts • Profitability ratio • Financial efficiency ratios • Gearing ratio • Investor ratios	MARCH The concept of investment appraisal Basic methods: payback, accounting rate of return (ARR) Discounted cash flow methods: discounted payback, net present value (NPV), internal rate of return (IRR) Qualitative factors in investment appraisal	1. Revision 2. Solving Past Questions
		Practical use of ratio analysis .		

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

		TERM 1
TOPIC	Month	CONTENT
Chapter 2 (Bk2) Matrices	August	 Solving system of equations Eigenvalues and eigenvectors Matrix Normalisation.
Chapter I (Bk2) Hyperbolic Functions	September	 Definitions Sketching graph of hyperbolic functions Proof of Identities Inverse hyperbolic functions
Chapter 3 (Bk2) Differentiations	October	 Differential of inverse trigonometric and hyperbolic functions Implicit and parametric differentiations Use of Maclaurin's series.
Chapter 5 (Bk2) Complex Numbers	November	 Understanding de Moivre's theorem. Proof of de Moivre's theorem by induction. Application of de Moivre's theorem for integer and rational values.

(TERM 1 EXAMINATION) Monday 11th December, 2020 (syllabus)

TOPIC	MONTH	CONTENT
Chapter 4 (Bk2) Integration	January	 Integration of inverse trigonometric and hyperbolic functions Integrating using reduction formulae Approximations of areas using rectangles Approximation of series of sums The arc length of a curve Surface area of a solid of revolution
Chapter 6 (Bk2) Differential Equations	February	 Integrating factors Second order differential equations Auxiliary equations with complex roots Non – homogeneous differential equations Use of substitutions to transform differential equations
All chapters	March, April	Revision

(TERM 2 EXAMINATION) Thursday 10th March, 2021 (Entire syllabus)





DPS INTERNATIONAL, GHANA 2020 -2021 SYLLABUS

CLASS: A-LEVEL

SUBJECT: FRENCH (9716)

TEACHER: MAMADOU TRAORE

	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
FirstTerm	Nos besoins énergetiques	Comment protéger la planète	France, terre d'asile?	Les riches et les pauvres	Revision
Ŧ		Literature La porte étro	Literature La porte étroite Andre Gide	Literature La porte étroite Andre Gide	



	JANUARY	FEBRUARY	MARCH MAY	APRIL	
Term		Crimes et châtiments	Les technologies nouvelles	La literature et les arts	Patrie, Europe et Francophonie
Second		Literature Candide de Voltaire	literațure Candide de Voltaire	Literature Candide de Voltaire	EXAM



Class: A LEVEL COM Subject: ACCOUNTING Teacher Name: MOSES DUNYOH

	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
First Term	1. Manufacturing Accounts 2. Clubs ad Societies *Solve A level past questions on the topic	3. Published financial statements of limited companies 4. IAS 7 Statement of Cash flows *Solve A level past questions on the topic	5. International Accounting Standards 6. The role of the Auditor and directors 7. Business Purchase ad merger *Solve A level past questions on the topic	8. Consignment Accounts 9. Joint Venture accounts *Solve A level past questions on the topic	10. Computerized Accounting systems 11. Investment and other ratios *Solve A level past questions on the topic
	JANUARY	FEBRUARY	MARCH	APRIL	MAY
	12. Activity based costing	14. Standard Costing	10. Revision on AS level topics	11. Revision on AS level topics	Revision on A level topics
Second Term	13. Budgeting and Budgeting control	15. Capital Investment Appraisal			
Seco	*Solve A level past questions on the topic	*Solve A level past questions on the topic	*Solve A level past questions on the topic	*Solve A level past questions on the topic	*Solve A level past questions on the topic



Class: A LEVEL

Subject: SOCIOLOGY (9699)

Teacher Name: DAVID BOBIEH

ц	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
FirstTerm	METHODS OF RESEARCH	METHODS OF RESEARCH	EDUCATION	GLOBALIZATION	MEDIA
	JANUARY	FEBRUARY	MARCH	APRIL	MAY
SecondTerm	MEDIA/END OF TERM EXAM	SOCIALIZATION AND THE CREATION OF SOCIAL IDENTITY	REVISION/MOCK EXAM	REVISION	REVISION

Class. As and A Level

Subject. Games Teacher Name.

	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
	FOOTBALL Playing from the back and pressing	FOOTBALL Switching play	FOOTBALL Retaining possession and Creating space to receive a pass and shooting	FOOTBALL Crossing and finishing	FOOTBALL Assessment (mini Game)
	TABLE TENNIS Forehand loop block	TABLE TENNIS Forehand smash and backhand loop	TABLE TENNIS Backhand chop, basic ball control and service	TABLE TENNIS Backhand drive and forehand drive	ASSESSMENT Mini Game
M I	HANDBALL	HANDBALL Keeping	HANDBALL	HANDBALL	HANDBALL
TERM	Passing and receiving	possession with the ball (choice of pass, screening opponent)	Shooting (involvement of shooting combinations	Blocking and Tackling (marking system)	ASSESSMENT Mini game
	JANUARY	FEBRUARY	MARCH	APRIL	MAY
	TENNIS Grip, Racquet and ball control and footwork	TENNIS Forehand and backhand groundstroke	TENNIS Maintaining a rally, tennis movement and court positioning	TENNIS Service and volleys	TENNIS Assessment (mini game)
TERM 2	BADMINTON The smash	BADMINTON 4 types of service	BADMINTON Drop shot and backhand drop	BADMINTON High stroke	BADMINTON Mini game
1/6	VOLLEYBALL Passing (three touch rally	VOLLEYBALL Digging and footwork	VOLLEYBALL Service	VOLLEYBALL Setting, spiking and blocking	VOLLEYBALL Assessment (mini game)

Class: A LEVEL Subject: BIOLOGY Teacher Name: NATHANIEL DUMASHIE

	AUGUST	SEPTE	MBER	OCTOBER	NOVEMBER	DECEMBER
First Term	1. Infectious diseases	2. Immunity		3. Energy and respiration4. Photosynthesis5. Homeostasis	6. Control and coordination 7. Inherited change 8. Selection and evolution	9. Biodiversity, classification and conservation
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE
Second Term	10. Gene technology Examinations	Solve past questions on the topic	Mock Examinations	Solve past questions	Solve past questions	Solve past questions Examinations



YEAR PLAN FOR SESSION 2020-21

Class: A LEVEL Subject: IT Teacher Name: Mr. Nicholas Ninson

	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
First Term	1. SOUND AND VIDEO EDITING	1. SOUND AND VIDEO EDITING 2. EMERGING TECHNOLOGIES 3. GRAPHICS CREATION	3. GRAPHICS CREATION 4. ANIMATION 5. SYSTEM LIFE CYCLE 5. MAIL MERGE	5. SYSTEM LIFE CYCLE 6. PROJECT MANAGEMENT	7. PROGRAMMING FOR THE WEB
	JANUARY	FEBRUARY	MARCH	APRIL	MAY
Second Term	7. PROGRAMMING FOR THE WEB	8. THE ROLE AND IMPACT OF ICT IN SOCIETY	ALL PRACTICAL REVISION	ALL PRACTICAL REVISION	ALL THEORY REVISION