#### Baridhara Scholars' International School and College (BSISC) Monthly academic study plane - 2020

Std: XIA [ International Advanced Subsidiary (IAS)]

Sub: Pure Mathematics 1(P1)

Book: 1. Pure Mathematics 1(student book)

Writer: Greg Attwood, Alistair Macpherson, Bronwen Moran, Jeo Petran, Keith Pledger, Geoff Staley

2. A level Mathematics Chapterwise Question Paper.

		January to 25 June / 2020
Month	Number of Classes	Topics
		Chapter 1: Algebric Expressions, Pg-(1-17) Chapter 2: Quadratics, Pg (1-33)
February	08	Question Paper solving related to the chapter
March	10	Chapter 3: Equations and Inequalities, Page (33 - 54) Chapter 4: Graphs and Transformations, Pg(58-65) & Question Paper solving related to the chapter
April	10	Chapter 4: Graphs and Transformations, Pg (65-78) Chapter 5: Straight line graphs (51 - 72) Chapter 6: Trigonometric ratios, Page (104 - 119) & Question Paper solving related to the chapter
May	02	Chapter 6: Trigonometric rations, Page (120 - 129) & Auestion Paper solving related to the chapter

# 2<sup>nd</sup> term (13 July to 16 November) 2020

Month	Number of Classes	Chapter
		Chapter 7 : Radians, Pg (133 - 145) &
July	06	Question Paper solving related to the chapter
August	06	Chapter 8 : Differenciation, Pg (150 - 167) & Question Paper solving related to the chapter
September	10	Chapter 8: Integration Pg (170 - 178)
October	16	Overall revision, yearwise QP solving
November	12	Qualifying test and
December		Mock test

# Baridhara Scholars' International School and College (BSISC) Monthly academic study plane - 2020 Std: XIA [ International Advanced Subsidiary (IAS)]

Sub: Pure Mathematics 2(P2)

Book: 1. Pure Mathematics 2(student book)

Writer: Greg Attwood, Alistair Macpherson, Bronwen Moran, Jeo Petran, Keith Pledger, Geoff Staley

2. A level Mathematics Chapterwise Question Paper.

Month	Number of Classes	Topics
		Chapter 1 : Algebric Methods, Pg-(1-21)
		Chapter 2 : Coordinate Geometry in (x-y)
		plane, Pg(25-44)
February	08	& &
		Question Paper solving related to the chapter
		Chapter 3 : Exponentials and Logarithms,
		Page (49 - 60)
	10	Chapter 4 : The Bionomial Expansion, Pg (62
March		- 67)
		&
		Question Paper solving related to the chapter
		Chapter 4 : The Binomial Expansion, Pg (67
		Chapter 5 : Sequences and Series (80 - 107)
	10	Chapter 6: Trigonometric Identities and
April		Equations, Page (112 - 133)
		&
		Question Paper solving related to the chapter
		Chapter 6: Trigonometric Identities and
		Equations, Page (125 - 133)
May	02	& X
		Question Paper solving related to the chapter

# $2^{nd}$ term (13 July to 16 November) 2020

Month	Number of Classes	Chapter
July	06	Chapter 7 : Differentiation, Pg (137 - 148) & Question Paper solving related to the chapter
August	06	Chapter 8 : Integration, Pg (152 - 170) & Question Paper solving related to the chapter
September	10	Chapter 8 : Integration
October	16	Overall revision, yearwise QP solving
November	12	Qualifying test and
December		Mock test

Monthly Academic Study Plan - 2020 Std: XI A (IAL)

Subject : Mechanics 1

Books: Pearson Edexcel Internation A Level Mechanics 1 Student Book

1<sup>st</sup> term (01 January to 23 June) 2020

Month	Number of Classes	Chapters/Topics	
February	14	Chapter 1 : Mathematical Models in Mechanics Chapter 2 : Constant Acceleration Related Problem from Review Exercise - 1	
March	15	Chapter 3: Vectors in Mechanics Chapter 4: Dynamics of A Particle Moving in A Straight Line Related Problem from Review Exercise - 1	
April	17	Chapter 5 : Forces and Friction Related Problem from Review Exercise - 2	
May	2	Revision & Question Paper Solution	
June	5 Revision & Question Paper Solution		
2 <sup>nd</sup> term (13 July to 16 November 2020)			
July	Chapter 6 : Momentum and Impulse Related Problem from Review Exercise - 2		
August	13	Chapter 7 : Statics of a Particle Related Problem from Review Exercise - 2	
September	18	Chapter 8 : Moments Related Problem from Review Exercise - 2 Revision & Question Paper Solution	

#### Monthly Academic Study Plan - 2020

Std. XI (International)

Subject: Physics

Book: Pearson Edexcellnternational AS/A LEVEL , Physics Students Book 1 (Miles Hudson)

Month	Number of Classes	Chapter/Topics
February	15	Working as a physicist  1- Standard units in physics  2- Estimation  Topic -1 (Mechanics),  1A Motion  1 - velocity and acceleration  Unit2: Topic 3 (Wave and particle Nature of light)  3A Basic waves 1. Wave basics 2. Wave types  3B- (Behaviour of waves) 1. Wave phase and superposition  Solving Past paper Questions related to the chapters
March	16	Topic -1 (Mechanics), 1A 1A Motion 1 - Velocity and acceleration 2 - Motion graphs 3 - adding forces 4 - Moments Unit 2 : 3B 2. Stationary waves 3. Difraction 4. Wave interference Solving Past papper Questions related to the chapters
April	14	Topic -1 (Mechanics), 1A 1A Motion 1 - Newton's law of motion 2 - Kinematics equation 3 - Resolving vectors 4 - Projectiles

May	10	Unit 23C( More wave properties of light)  1.Refraction 2.Total internal reflection  Solving Past paper Questions related to the chapters  Topic -1 (Mechanics),  1B Energy  1 - gravitational potential and kinetic energies  2 - work and power  Topic - 1 (Mechanics),  1C Energy  1 - Momentum  2 - conservation of linear momentum  Unit 2 3C 3. Polarisation 3D (Quantum Physics) 1. Wave-particle duality 2. The photoelectric effect.  Unit 2 3D 3. Electron diffraction and interference 4. Atomic electron energies  Solving Past paper Questions related to the chapters
June	01	Revision

#### $2^{nd}$ term (13 July to 16 November) 2020

Month	Number of Classes	Chapter/Topics	
July	10	Unit 2 : Topic 4 (Electric circuits) 4A (Electrical quantities) 1. Electric current 2. Electrical energy transfer 3. Current and voltage relationships 4. Resistivity 5. Conduction and resistance 6. Semiconductors Topic- 2 (Materials), 2A Fluids 1 - Fluids, density and up thrust 2 - fluid movement 3 - viscosity 4 - thermal velocity Solving Past paper Questions related to the cahpters	
August	16	Topic - 2 (Materials), 2A Fluids 1 - Hooke's law 2 - Stress, strain and the young modulus 3 - Stress-strain graph Unti 2 : 4 B (complete electrical circuits) 1. Series and Parallel circuits 2. Electrical circuits rules 3. Potential dividers 4. EMF and internal resistance 5. Power in electric circuits Solving Past paper Questions (Jan 2015 June 2019)	
September	12	Qualifying Test Unit 1, Unit 2 & Unit 3 Solving Past paper Questions (Jan 2009 June 2014)	
October	14	Mock Test	
November	10	Mock Test	

Question Pattern & marks Distribution:

First Half Yearly Exam : Unit 1 + Unit 2 + Unit 3 = 80 + 80 + 50 = 210= 75 = 25 First Half Yearly Exam Total converted into

CTTotal = 100

Second Half Yearly Exam - 3 Mock exams covering all the chapters of IAS Syllabus.

Type of Question - There will be three units in Physics The question pattern will be as per IAS specification.

Monthly Academic Study Plan - 2020

Std: XIA (International)
Subject: Chemistry
Book: Edexcel AS Chemistry

Month	Number of Classes	Chapter/Topics
February	16	Unit 1: Chapter 1 - Formulae, equations and amounts of substance Chapter 2 - Atomic structure and the periodic table Unit 2: Topic 6 - Energetics, topic 7: Intermoleccular Forces Unit 3: Core Practical 2, 3 Unit 1, Unit 2 & Unit 3 Solving Past paper Questions related to the chapters
March	14	Unit 1 : Chapter 3 - Bonding and Structure Chpater 4 - Introductory organic chemistry and alkanes Unit 2 : Topic 8 - Redox Chemistry and Groups 1,2,7 Topic 9- Introduction to kinetics and Equilibria Unit 1 , Unit 2 & Unti 3 Solving Pas Paper Questions related to the chapters
April	12	Unti 1 : Chapter 5 - Alkenes Unti 2 : Topic 9 - Introduction to kinetics and Equilibria Topic 10 - Organic Chemistry: Halogen, Alkanes, Alcohols and Spaectra Unit 3 : Core Practical 4 Unit 1, Unti 2 & Unit 3 Solving Past paper Questions related to the chapters
May	1	Unit 1, Unit 2 & Unit 3 Solving Past paper Questions
June	14	Revision

#### 2<sup>nd</sup> term (13 July to 16 November) 2020

Month	Number of Classes	Chapter/Topic	
July 08		Unti 2 : Topic 9 - Introduction to Kinetics and Equilibria Unit 1, Unit 2 & Unit 3	
		Solving Past paper Questions (June 2019- Jan -2018)	
		Unit 2 : Topic 10 - Organic Chemistry:	
	12	Halogenoalkanes, Alcohols and Spectra	
August		Unit 3 : Core Practical 5,6,7,8	
ragast		Unit 1, Unit 2 & Unit 3	
		Solving Past Paper Questions (Jan 2014-	
		June 2017)	
		Qualifying Test	
September	12	Unit 1, Unit 2 & Unit 3	
1		Solving Past paper Questions (Jan 2009-	
		June 2013)	
October	10	Mock Test	
November	09	Mock Test	

#### Question Pattern & Marks Distribution:

 $1^{\text{st}}$  Term Exam: Unit 1 + Unit 2 + Unit 3 = 80 + 80 + 50 = 210

 $1^{\text{st}}$  Term Exam Total converted into = 100

 $2^{nd}$  Term Exam - 3 Mock exams covering the three IASunits (Units1, 2 and 3) content.

Type of Question - There will be three units in IAS Chemistry. The question pattern will be as per IASspecification.

#### Baridhara Scholars' International School and College (BSISC) Monthly Academic Study Plan - 2020

Level: International Advance Level (IAL) CLASS: XIA

SUBJECT: Biology Unit 1,2 and 3 Book: Edexcel AS Biology student's First Half Yearly (1st January to 23 June) 2020

Month	Number of Classes	Chapter/Topic
January	6	Topic 1, Molecules, Transport and Health. Chemistry for Biologists. The Chemistry of life. Carbohydrates Mono and Polysaccharide
February	6	Topic 2 Molecules, Transport and Health. Lipid and Proteins Mammalian transpor system. Principles of circulation. The roles of the blood.
March	8	Topic 3. Membrane, proteins, DNA and Gene expression, Molecules, Transport and Health. Circulation of the blood vessel. Cardiovascular health and risk The benefit and risks of treatment.
April	8	Topic 4. Membrane, proteins, DNA and Gene expression. Cell membrane, Cell trnaspor and diffusion
		A specaial case of diffusion
May	1	Topic 2. Membrane, proteins, DNA and Gene expression. Proteins and DNA, Gene expression and genetics.

#### Second Half Yearly (13 July-16 November) 2020

Month	Number of Classes	Chapters
June	2	Topic 2 - Cell structure, Reproduction and development. Active transpor Osmosis, Eukaryotic cells 1 & 2
July	7	Topic 3 Cell structure, Reproduction and development. Protein transport in cells Asexual reproduction and natural cloning Growth
August	9	Topic 4 Plant structure and function, Biodiversity and conservation. Plant pharmacies Modern drug development Developing new drugs.
September	8	1 <sup>st</sup> Mock test
October	10	2 <sup>nd</sup> Mock test
November	9	3 <sup>rd</sup> Mock test

#### Question Pattern & Marks Distribution:

First Half Yearly Exam: Unit $1 + \text{Unit } 2 + \text{Unit } 3 = 80 + 8$	30+50=210
First Half Yearly ExamTotal converted into	= 75
CT	= 25
Total	= 100

Second Half Yearly Exam - 3 Mock exams covering all the ahapters of IAS syllabus.

Type of Question - There will be three units in Biology. The question pattern will be as per IAS specification.

# Baridhara Scholars' International School and College (BSISC) Monthly Academic Study Plan - 2020 Class: XI AS (International)

Subject : Psychology

Book : Edexcel AS/A level Psychology Pearson 1st term exam: (1 Februay - 14 July) 2020

N. 4.	Number of	Cl. , /T.	
Month	Classes	Chapter/Topic	
February	10	Social Psychology:  Obedience (Theories of obedience, Research into obedience, factors affecting obedience and resistance to obedience including individual differences eg- personality, gender, situation, culture.)	
March	11	Prejudice-Explanation and research into prejudice, factors affecting prejudice, Social identity theory, realistic conflict theory. Individual differences in obedience /prejudice Developmental psychology in obedience/prejudice	
April	11	Methods: Self reporting data (Designing & conducting questionnaires, interviews-unstructured semi-sturctured and unstructured interviews, open & close questions) Sample selection and techniques Analysis of quantitative data (central	
		tendencey, frequency tables, graphical presentation, measures of dispersion) Analysis of qualitative data using themat analysis	
May	00		
June	06	Fthical guidelelines: BPS code of ethics and conduct including risk management.  Different Classic studies	

# $2^{nd}$ term (13 July to 16 November) 2020

	1	
		Cognitive Psychology:
July	15	Memory (the working memory model, the multi store model of memory), Explanation of long term memory- episodic and semantic memory, Reconstructive memory including schema theory, Individual differences in memory, Developmental psychology in memory.  Experimental methods:  -Designign and conducting experiments, independent and dependent variables, experimental & null hypothesis, one tailes & two tailed tests and hypothesis Experimental & research designs -Operationalisation of variables, extraneous variables
August	08	Experimental methods:  -Counterbalancing, randomization & order effect - Situational & participant variables - objectivity, reliability & validity - Experimental effects, demand characteristics & control issues.  Quantitative data analysis:  -Analysis of quantitative data: calculate measures of central tendency, frequency tables, measures of dispersion (range and standard deviation), perecentagesGraphical presentation of data (bar graph, histogram) -Decision making and interpretation of inferential
		Statictics -Case study of brain-damaged patients, including Henry Molaison (HM)
September	13	
October	10	-Different classic studies
November	13	-Practical Investigation: One Practical research exercise to gather datarelevant to topics covered in cognitive psychologyOverall revision, year wise QP solving, Qualifying test and Mock test

Note: Question pattern and mark distribution as per Edexcel question paper and marks distribution.

Monthly Academic Study Plan - 2020

Std: XI A (IAL)
Subject: Business Studies

Books: Pearson Edexcel International A Level Business 1 Student Book

1<sup>st</sup> term (1st January to 23 June)2020 Unit 1 : Marketing and People

Month	Number of Classes	Chapter/Topic	
February	11	Chapter 1-3: Meeting Customer Needs Chapter 4-8: The Market Related Problem from Review Exercise -1	
March	14	Chapter 9-13: Marketing Mix and Strategy Chapter 14: Approaches to Staffing Chapter 15: Recruitment, Selectiona and Training Related Problem from Review Exercise-1	
April	14	Chapter 16-18: Managing People Chapter: 19-22: Entrepreneurs and Leaders Related Problem from Review Exercise -2	
May	2	Revision & Question Paper Solution	
June	4	Revision & Question Paper Solution	
2 <sup>nd</sup> term (13 July to 16 November)2020 Unit 2 : Managing Business Activities			
July	8	Chapter 23-28: Planning a Business and Raising Finance Related Problem from Review Exercise-2	
August	11	Chapter 29-33 : Financial Planning Chapter 34-36 : Managing Finance Related Problem from Review Exercise - 2	
September	16	Chapter 37-40: Resource Mangement Chapter 41-43: External Influences Related Problem from Review Exercise-2 Revision & Question Paper Solution	

Monthly Academic Study Plan - 2020

Std: XI A (IAL) Subject : Economics

Books: Pearson Edexcel International AS/A Level Economics Student Book-1

Author: Alan Hewison & Tracey Joad

Month	Number of Classes	Chapter/Topic	
February	8	UNIT 1 : MAKETS IN ACTION Introductory Concepts Chapter : 1 to 5	
March	12	UNIT 1 : MAKETS IN ACTION Consumer Behavior and Demand Chapter : 6 to 9 Supply Chapter : 10 UNIT 2 : MACROECONOMICS PERFORMANCE AND POLICY Measures of Economic Performance Chapter : 21 to 26	
April	12	UNIT 1: MAKETS IN ACTION Price Determination  Chapter: 11 to 13  UNIT 2: MACROECONOMICS PERFORMANCE AND POLICY Aggregate Demand Chapter: 27 to 30 Aggregate Supply Chapter: 31	
May	2	Revision & Related Question Paper Solution	
June	3	Revision & Related Question Paper Solution	

#### 2<sup>nd</sup> term (13 July to 16 November)2020

July	8	UNIT 1: MAKETS IN ACTION Market Failure Chapter: 14 to 18 UNIT 2: MACROECONOMICS PERFORMANCE AND POLICY National Income Chapter: 32 to 34
August	10	UNIT 1: MAKETS IN ACTION Govt. Intervention in Markets Chapter: 19 to 20 UNIT 2: MACROECONOMICS PERFORMANCE AND POLICY Economic Growth Chapter: 35 to 36
September	14	UNIT 2 : MACROECONOMICS PERFORMANCE AND POLICY Macroeconomic Objectives and Policies Chapter : 37 to 40 Revision & Related Question Paper Solution

# Baridhara Scholars' International School and College (BSISC) Monthly Academic Study Plan - 2020

Std: XI A [ International Advanced Subsidiary (IAS)]
Sub: Information Technology (Unit 1)

2<sup>nd</sup> term (15 July to 17 December)2020

Month	Number of Classes	Chapter
July	05	Topical (a): Hardware
August	05	Topical (b) : Software
September	04	Topic 2 : Network
October	(04+04)	Topic 3 : Online Error Ment Topic 4 : IT System
November	04	Topic 1,2,3,4 Revision
December		Exam

#### Baridhara Scholars' International School and College (BSISC) Monthly Academic Study Plan - 2020

Std: XI A [ International Advanced Subsidiary (IAS)] Sub: Information Technology (Unit 2)

2<sup>nd</sup> term (15 July to 17 December)2020

Month	Number of Classes	Chapter
July	05	Topic 7: Understanding the functionality of HTML
August	05	Topic 7: Understanding the functionalty of HTML Topic 8: Understanding the functionality of CSS
September	04	Topic 8: Understanding the functionality of CSS Topic 9: Understanding the functions of Javascript
October	08	Topic 8: Understanding the functionaltiy of CSS Topic 9: Understandint the functions of JavaScript
November	04	Topic 9: Understanding the functions of JavaScript Revision
December		Exam