

**BARIDHARA SCHOLARS' INTERNATIONAL SCHOOL
& COLLEGE (BSISC)**

Monthly Academic Study Plan-2021

Std. XII (International)

Subject: Chemistry

Books: Edexcel A2 Chemistry

1st Term (1 January to 16 June, 2021)

Months	No of Classes	Chapters/Topic
February	12	Unit 4: Topic 11-Kinetics Topic 12-Entropy and Energetics Unit 5: Topic 16-Redox Equilibria Topic 17-Transition Metals and their Chemistry Unit 6: Core Practical 12, 13a and 13b Unit 4, Unit 5 and Unit 6 Solving Past paper Questions related to the chapters
March	11	Unit 4: Topic 13-Chemical Equilibria Unit 5: Topic 17-Transition Metals and their Chemistry Topic 18-Organic Chemistry Arenes Unit 6: Core Practical 14, 15 Unit 4, Unit 5 and Unit 6 Solving Past paper Questions related to the chapters
April	09	Unit 4: Topic 14-Acid base Equilibria Unit 5: Topic 19-Organic Nitrogen Compounds: Amines, Amides, Amino Acids and Proteins Unit 6: Core Practical 16 Solving Past paper Questions related to the chapters
May	05	Unit 4, Unit 5 & Unit 6 Solving Past paper Questions related to the chapters
June	10	Revision

2nd Term (6 July to 15 November, 2021)

Months	No of Classes	Chapters/Topic
July	06	Unit 4: Topic 15-Organic Chemistry Carbonyls, Carboxylic acids and Chirality Unit 4: Topic 20-Organic Synthesis Unit 4, Unit 5 & Unit 6 Solving Past paper Questions (Jan 2020-Jan 2019)
August	09	Unit 4, Unit 5 & Unit 6 Solving Past paper Questions (June 2018-June 2017)
September	09	Qualifying Test Unit 4, Unit 5, Unit 6 Solving Past paper Questions (Jan 2017-June 2015)
October	07	Mock Test
November	06	Mock Test

Question Pattern & Marks Distribution:

1st Term Exam Unit 4 + Unit 5 + Unit 6 = 90+90+50 = 230

1st Term Exam Total converted into = 100

2nd Term Exam- # Mock exams covering the three IA2 units (Units 4, 5 and 6) content

Type of Question- There will be three unit IA2 Chemistry. The question pattern will be as per IAS specification

**BARIDHARA SCHOLARS' INTERNATIONAL SCHOOL
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Monthly Academic Study Plan-2021

Std. XII (International)

Subject: Mechanics 2

Books: Pearson Edexcel International A Level

1st Term (3 January to 16 June, 2021)

Months	No of Classes	Chapters/Topic
February	12	Projectiles
March	12	Variable Acceleration
April	08	Changes of Mass
May	05	QP Solving
June	06	Work and Energy

July	08	Impulses and Collisions
August	10	Statics of Rigid Bodies
September		Revision/Mock
October		
November		

Note: Question pattern and distribution of marks according to IAS and IAL pattern.

**BARIDHARA SCHOLARS' INTERNATIONAL SCHOOL
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Monthly Academic Study Plan-2021

Std. XII (International)

Subject: Physics

Book: Student Book 2, Miles Hudson

1st Term (3 January to 16 June,)

Month	No of Classes	Name of the chapter and topics
January	17	Unit 4: Further Mechanics Unit 5: Thermodynamics Unit 6: Investigate the relationship between the force exerted on an object and it's change of momentum
February	16	Unit 4: Further Mechanics Unit 5: Thermodynamics Unit 6: Use ICT to analyze collisions between small spheres
March	15	Unit 4: Further Mechanics Unit 5: Radiations Unit 6: Use an oscilloscope or data logger to display and analyses the P.d across a capacitor as it charges and discharges through capacitor.
April	10	Unit 4: Fields and Particles Unit 5: Oscillations Unit 6: Determine the specific latent heat of phase change
May	03	Unit 4: Fields and Particles Unit 5: Oscillations
June	10	Unit 6: Investigate the relationship between pressure and volume of a gas at fixed temperature Unit 6: Determine the value of unknown mass using resonant frequencies of the oscillations of known mass

2nd Term (7 July to 15 November,)

Month	No of Classes	Name of the chapter and topics
July	10	Unit 4: Fields and Particles Unit 5: Cosmology Unit 6: calibrate a thermistor in a potential divider circuit as a thermostat
August	13	Unit 4: Fields and Particles Unit 5: Cosmology Unit 6: Investigate the absorption of Gamma radiation by Lead
September	13	Overall revision, year wise QP solving (2015-2019)
October	11	Qualifying test
November	08	Mock test

Marks Distribution: According IAL Pattern.

**BARIDHARA SCHOLARS' INTERNATIONAL SCHOOL
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Monthly Academic Study Plan-2021

Std. XII (International)

Subject: Business Studies

Book: Person Edexcel International A Level Business 1 Student Book

1st Term (3 January to 16 June, 2021)

Month	No of Classes	Chapters/Topics
February	13	Business Activity and influences on business Chapter 1-10 Related Problem from Review Exercise-1
March	12	Business Activity and influences on business Chapter 11-15 People in business Chapter 16-21 Related Problem from Review Exercise-1
April	07	People in business Chapter 22-24 Related Problem from Review Exercise-2
May	01	Vacation
June	05	Revision & Question Paper Solution

2nd Term (6 July to 15 November, 2020)

Month	No of Classes	Chapters/Topics
July	03	Business Finance Chapter 25-32 Related Problem from Review Exercise-2
August	10	Marketing Chapter 33-39 Business Operation Chapter 40-45 Related Problem from Review Exercise-2
September October November		Related Problem from Review Exercise-2 Revision & Question Paper Solution

Note: Question pattern and distribution of marks according to IAS and IAL pattern.

**BARIDHARA SCHOLARS' INTERNATIONAL SCHOOL
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Monthly Academic Study Plan-2021

Std. XII (International)

Subject: Pure Mathematics (P4)

Book: Person Edexcel International A Level Pure Mathematics P4

1st Term (3 January to 16 June, 2021)

Month	No of Classes	Chapters/Topics
February	12	Proof and Partial Fractions
March	12	Coordinate Geometry in the (x,y) Plane
April	08	Binomial Expression
May	0	
June	08	Differentiation

Month	No of Classes	Chapters/Topics
July	08	Integration
March	10	Vectors
April		Revision/Mock
May		
June		

Note: Question pattern and distribution of marks according to IAS and IAL pattern.

**BARIDHARA SCHOLARS' INTERNATIONAL SCHOOL
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Monthly Academic Study Plan-2021

Std. XII (International)

Subject: Economics

Books: Pearson Edexcel International A2 Level Economics Student Book-2

Author : Karen Borrington & Tracey Joad

1st Term (3 January to 16 June, 2021)

Months	No. of Classes	Chapters/Topic
February	08	UNIT 3: BUSINESS BEHAVIOUR ➔ Types and Sizes of Businesses Chapter 1 to 3 UNIT 4: DEVELOPMENTS IN THE GLOBAL ECONOMY ➔ Causes and Effects of Globalization Chapter 21 to 22
March	08	UNIT 3: BUSINESS BEHAVIOUR ➔ Types and Sizes of Businesses Chapter 4 to 7 UNIT 4: DEVELOPMENTS IN THE GLOBAL ECONOMY ➔ Trade and the Global Economy Chapter 23 to 27
April	04	UNIT 3: BUSINESS BEHAVIOUR ➔ Market Structures and Contestability Chapter 8 to 14 UNIT 4: DEVELOPMENTS IN THE GLOBAL ECONOMY ➔ BOP, Exchange Rates and International Competitiveness Chapter 28 to 31
May	02	Vacation
June	06	UNIT 3: BUSINESS BEHAVIOUR ➔ Labour Markets Chapter 15 to 18 UNIT 4: DEVELOPMENTS IN THE GLOBAL ECONOMY ➔ Poverty and Inequality

		Chapter 21 to 22
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2nd Term (7 July to 15 November, 2021)

Months	No. of Classes	Chapters/Topic
July	04	UNIT 2: DEVELOPMENTS IN THE GLOBAL ECONOMY ➔ The Role of the State in The Macro-economy Chapter 34 to 38
August	08	UNIT 3: BUSINESS BEHAVIOUR ➔ Government Intervention Chapter 19 to 20 UNIT 2: DEVELOPMENTS IN THE GLOBAL ECONOMY ➔ Growth and Development in Developing, Emerging and Developed Economies Chapter 39 to 41
September		Revision/Mock
October		
November		

Note: Question pattern and distribution of marks according to IAS and IAL pattern.

**BARIDHARA SCHOLARS' INTERNATIONAL SCHOOL
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Monthly Academic Study Plan-2021

Std. XII (International)

Subject: IAL Accounting

Books: i) Business Accounting 2 – Frank Wood & Alan Sangster

1st Term (3 January to 16 June, 2021)

Months	No. of Classes	Chapters/Topic
January	12	<u>Break even analysis:</u> Frank Wood & Alan Sangster (FA)-Chapter:-42 Question paper solving related to the chapter
February	12	<u>Capital expenditure appraisal:</u> Frank Wood & Alan Sangster (FA)-Chapter:-44 Question paper solving related to the chapter
March	13	<u>Absorption and marginal costing:</u> Frank Wood & Alan Sangster (FA)-Chapter:-39 Question paper solving related to the chapter
April	05	<u>Budgeting and budgetary control:</u> Frank Wood & Alan Sangster (FA)-Chapter:-36 <u>Cash budget:</u> Frank Wood & Alan Sangster (FA)-Chapter:-37 <u>Co-ordination of budgets:</u> Frank Wood & Alan Sangster (FA)-Chapter:-38 Question paper solving related to the chapter <u>The financial statements of limited companies:</u> <u>profit and loss accounts.</u> Frank Wood & Alan Sangster (FA)-Chapter:-11 Question paper solving related to the chapter
May	04	<u>Vacation</u>
June	06	<u>The financial statements of limited companies:</u> <u>balance sheets.</u> Frank Wood & Alan Sangster (FA)-Chapter:-11 Question paper solving related to the chapter

2nd Term (6 July to 15 November, 2021)

Months	No. of Classes	Chapters/Topic
July	07	<u>Accounting ratios:</u> Frank Wood & Alan Sangester (FA)-Chapter:-27 <u>Interpretation of financial statements:</u> Frank Wood & Alan Sangester (FA)-Chapter:-28 Question paper solving related to the chapter
August	12	<u>The issue of shares and debentures:</u> Frank Wood & Alan Sangester (FA)-Chapter:-04 <u>Cash flow statements:</u> Frank Wood & Alan Sangester (FA)-Chapter:-14 Question paper solving related to the chapter
September	13	<u>Limited companies taking over other businesses:</u> Frank Wood & Alan Sangester (FA)-Chapter:-06 <u>ICT in accounting:</u> Frank Wood & Alan Sangester (FA)-Chapter:-47 Question paper solving related to the chapter
October	10	Revision of 2nd half yearly exams syllabus
November	09	Revision of 2nd half yearly exams syllabus

Question Pattern, Time & Marks Distribution:**Time:** 3hours

100 marks in total

Marks distribution:

- ❖ Question as per IAL
- ❖ Short question
- ❖ Accounting problem

**BARIDHARA SCHOLARS' INTERNATIONAL SCHOOL
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Monthly Academic Study Plan-2021

Std. XII (International)

Subject: Biology Unit 4, 5 and 6

Book: Edexcel A2 Biology student Book

FIRST HALF YEARLY (3 JANUARY TO 16 JUNE, 2021)

Months	No of Classes	Chapters
January	12	Topic 5 Photosynthesis The need for energy Photosynthesis in plants the biochemistry of photosynthesis
February	12	Topic 5 How ecosystems work Ecology Biotic factor
March	13	Topic 6 Forensic investigations and analysis of DNA Microorganisms and disease
April	05	Topic 6 How bacteria reproduce Invading the body People verses pathogens
May	02	Topic 7 Cellular respiration Muscles and movement Types of muscle fiber
June	06	Topic 7 The heart, energy and exercise Controlling the heart Breathing rhythms

SECOND HALF YEARLY (7 JULY TO 15 NOVEMBER, 2021)

Months	No of Classes	Chapters
July	07	Topic 8 The nervous system Coordination in plants & animals
August	12	Topic 8 Gene Technology Coordination in plants & animals
September	15	1 st Mock test
October	06	2 nd Mock test
November	09	3 rd Mock test

**BARIDHARA SCHOLARS' INTERNATIONAL SCHOOL
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Monthly Academic Study Plan-2021

Std. XII (International)

Subject: Pure Mathematics 3 (P3)

Book: 1. Pure Mathematics 3 (student book)

Writer: Greg Attwood, Alistair Macpherson, Bronwen Moran, Joe Patran, Keith Pledger, Geoffry Staley

2. A level Mathematics Chapterwise Question Paper

1st Term (3 January to 16 June, 2021)

Month	No of Classes	Topics
February	12	Chapter 1: Algebraic Methods, Pg-(1-09) Chapter 2: Functions and Graphs, Pg (10-45)& Question Paper solving related to the chapter
March	12	Chapter 3: Trigonometric Functions, Pg (46-69) Chapter 4: Trigonometric Addition Formulae, Pg (70-101)& Question Paper solving related to the chapter
April	06	Chapter 4: Trigonometric Addition Formulae, Pg (70-101) Chapter 5: Exponentials and Logarithm, Pg (102-120)
May	04	Chapter 4 & 5 Question Paper solving related to the chapter
June	06	Revision

2nd Term (6 July to 15 November, 2021)

Month	No of Classes	Topics
July	08	Chapter 6: Differentiation, Pg (122-145) & Question Paper solving related to the chapter

August	08	Chapter 7: Integration, Pg (146-157) & Question Paper solving related to the chapter
September	10	Chapter 8: Numerical Methods & Question Paper solving related to the chapter
October	16	Overall revision, year wise QP solving Qualifying test and Mock test
November	08	3 rd Mock test

Note: Question Pattern and distribution of marks according IAL pattern