



# Sadiq Public School

## Syllabus

Class: H1

Subject: Biology

Academic Session: 2021-2022

Books Recommended: Biology fourth edition by Tailor Green Stuart

### Details of Syllabus

S.No.	Chapter/Topic	Description
1-	A-Cell structure	Principles of microscopy, interrelationship between cell structure and function, difference between prokaryotic and eukaryotic cell.
2-	B-Biological molecules	Tests for biological molecules, structure and function of carbohydrates, lipids, protein (globular and fibrous protein) and water
3-	C-Enzymes	Mode of action of enzymes, factors effecting enzyme action
4-	D-Cell membrane and transport	Fluid mosaic model structure of cell membrane, movement of substances
5-	E-The mitotic cell cycle	respiration and division of cell and nucleus, chromosome behavior
6-	F-nucleic acid and protein synthesis	Structure and replication of DNA, protein synthesis and gene mutation
7-	G-Transport in plants	Structure and function of xylem and phloem, movement of xylem and phloem sap.
8-	H-transport in mammals	Heart, blood vessels, blood, difference between blood, tissue fluid and lymph, cardiac cycle and heart action
9-	I-Gas exchange and smoking	Structure of human exchange system, effects of tar and carcinogenesis
10-	J-Infectious diseases	Name and type of causative organisms of cholera, malaria, TB, AIDS, small pox and measles.
11-	K-Immunity	Origin and mode of action of phagocytes, structure and function of antibodies and immunity.

\_\_\_\_\_  
Subject Teacher

\_\_\_\_\_  
Head of Department

\_\_\_\_\_/\_\_\_\_\_  
Headmaster/Headmistress



# Sadiq Public School

## Syllabus

Class: H1

Subject: Business

Academic Session: 2021-2022

Books Recommended: BUSINESS BY PETER STIMPSON & ALASTAIR FARQUHARSON (3rd Edition)

### Details of Syllabus

S. No.	Chapter/Topic	Description
1	Business and its environment	Enterprise, Business structure, Size of business, Business Objectives, Stakeholders in a business
2	People in organizations	Management and leadership, Motivation, Human Resource Management
3	Marketing	What is Marketing, The marketing mix: product and price, The marketing mix: promotion and placement
4	Operations Management	The nature of Operations, Operations Planning, Inventory management
5	Finance	Business Finance, Costs, Accounting Fundamentals, Forecasting and managing cash flows

\_\_\_\_\_  
Subject Teacher

\_\_\_\_\_  
Head of Department

\_\_\_\_\_/\_\_\_\_\_  
Headmaster/Headmistress



# Sadiq Public School

## Syllabus

Class: H1A/G

Subject: LAW

Academic Session: 2021-2022

Books Recommended: As and A level Law by Hodder Education

### Details of Syllabus

S. No.	Chapter/Topic	Description
1.	Common Law and Equity	Development of common law and problems which led to creation of equity
2.	Precedent	Role of Judges in the development of Law
3.	Legislation	Process of law making done by Parliament
4.	D.L	Role of DL in the development of law
5.	S.I	Different ways of interpreting statutes
6.	Law Reform	Role of law reform bodies in development of law
7.	Civil disputes	Court cases,ADR and Tribunals
8.	Crime and Courts	Police powers,pre trial matters, Criminal trial and sentencing
9.	Machinery of Justice	Judges, legal profession, Juries, Lay Magistrates and CPS.

\_\_\_\_\_  
Subject Teacher

\_\_\_\_\_  
Head of Department

\_\_\_\_\_/\_\_\_\_\_  
Headmaster/Headmistress



# Sadiq Public School

## Syllabus

Class: H1

Subject: Economics

Academic Session: 2021-2022

Books Recommended: Colin Bamford and Susan Grant Cambridge International AS and A level

### Details of Syllabus

S. No.	Chapter/Topic	Description
1	Unit 1	Basic economic ideas and resource allocation
2	Unit 2	The price system and the micro economy
3	Unit 3	Government microeconomic intervention
4	Unit 4	The macro economy
5	Unit 5	Government macro intervention

\_\_\_\_\_  
Subject Teacher

\_\_\_\_\_  
Head of Department

\_\_\_\_\_/\_\_\_\_\_  
Headmaster/Headmistress



Sadiq Public School

Syllabus

Class: H1

Subject: Mathematics

Academic Session: 2021-2022

Books Recommended: Pure Math 1 by Hugh Neil and Douglas Quadling

Mechanics (M1) by Jan Dangerfield & Stuart Haring

Details of Syllabus

S. No.	Chapter/Topic	Description
01	Chapter # 01	Quadratics
02	Chapter # 02	Functions
03	Chapter # 03	Coordinate Geometry
04	Chapter # 04	Circular Measure
05	Chapter # 05	Trigonometry
06	Chapter # 06	Series
07	Chapter # 07	Differentiation
08	Chapter # 08	Further Differentiation
09	Chapter # 09	Integration
Mechanics		
10	Chapter # 01	Velocity and Acceleration
11	Chapter # 02	Force and Motion in One Dimension
12	Chapter # 03	Forces in Two Dimension

S. No.	Chapter/Topic	Description
13	Chapter # 04	Friction
14	Chapter # 05	Connected Particles
15	Chapter # 06	General Motion in Straight Line
16	Chapter # 07	Momentum
17	Chapter # 08	Work and Energy
18	Chapter # 09	The Work-energy principle and power

\_\_\_\_\_  
Subject Teacher

\_\_\_\_\_  
Head of Department

\_\_\_\_\_/\_\_\_\_\_  
Headmaster/Headmistress



Class:           H1          

Subject:           Physics          

Academic Session:           2021-2022          

Books Recommended:                                 Pacific Physics A-level Volume I&II                                

Details of Syllabus

S. No.	Chapter/Topic	Description
1.	Physical Quantities and units	quantities SI units Scalar and vectors errors uncertainties precision and accuracy
2	kinematics	linear and non-linear motion
3	dynamics	newton’s laws of motion , impulse
4	Forces, density and pressure	types of forces, moment, measurement of density of solid and liquid. Dependence of pressure.
5	work energy and power	K.E & P.E and their conversion
6	deformation of solid	young’s modulus, elastic and plastic behavior of a wire
7	waves	progression, super position of wave
8	superposition	Interference of waves, Young’s modulus, stationary waves, waves in open and close pipe
9	electricity	electric current, potential difference and emf,
10	D.C circuit	combination of resistances and cells, Kirchhoff’s rules
11	particle Physics	$\alpha$ -particle scattering experiment, isotopes and nuclear process, quark, antiquark, hadron, $\beta^-$ and $\beta^+$ decay

\_\_\_\_\_  
Subject Teacher

\_\_\_\_\_  
Head of Department

\_\_\_\_\_  
Headmaster/Headmistress



# Sadiq Public School

## Syllabus

Class: H1

Subject: Computer Science

Academic Session: 2021-2022

Books Recommended: Cambridge International AS & A Level Computer Science by David Watson and Helen Williams

### Details of Syllabus

S. No.	Chapter/Topic	Description
1	Chapter 1	Information Representation and Multimedia
2	Chapter 2	Communication
3	Chapter 3	Hardware
4	Chapter 4	Processor Fundamental
5	Chapter 5	System Software
6	Chapter 6	Security, Privacy and Data Integrity
7	Chapter 7	Ethics and Ownership
8	Chapter 8	Database
9	Chapter 9	Algorithm Design and Problem Solving
10	Chapter 10	Data Types and Structures
11	Chapter 11	Programming
12	Chapter 12	Software Development

\_\_\_\_\_  
Subject Teacher

\_\_\_\_\_  
Head of Department

\_\_\_\_\_  
Headmaster/Headmistress





# Sadiq Public School

## Syllabus

Class: H1

Subject: Accounting

Academic Session: 2021-2022

**Books Recommended:** International AS & A Level Accounting by David Hopkins and Harold Randall (2nd Ed).

### Details of Syllabus

S. No.	Chapter/Topic	Description
1	Ch. No. 1	Double entry book-keeping: cash transactions
2	Ch No. 2	Double entry book-keeping: credit transactions
3	Ch. No. 3, 4	Books of Prime Entry, Balancing of accounts
4	Ch. No. 5, 6	Classifications of accounts and division of the ledgers, Trial balance
5	Ch No. 7, 8	Income statement and statement of financial position: sole trader
6	Ch. No. 9, 10	Accounting principles and concepts, Accruals and prepayments
7	Ch. No. 11	Provision for depreciation of non-current assets
8	Ch. No. 12	Irrecoverable and doubtful debts
9	Ch. No. 13	Bank reconciliation statement
10	Ch. No. 14, 15	Control Accounts, Suspense Account
11	Ch. No. 16, 17 , 18	Incomplete records, Partnership accounts and partnership changes
12	Ch. No. 19, 23, 27	Accounting for Companies, Cash Flow Statement and Ratio Analysis (AS only)
13	Ch. No. 28, 29	Costing for material, labor and overheads, unit, job and batch costing
14	Ch. No. 30	Marginal Costing

GY/MQL

\_\_\_\_\_  
Subject Teacher

\_\_\_\_\_  
Head of Department

\_\_\_\_\_/\_\_\_\_\_  
Headmaster/Headmistress



**SADIQ PUBLIC SCHOOL**

**SYLLABUS**

Document No: SPS-QF-SBP-01

Issue No: 02

Issue Date: 14-05-2007

Revision No: 01

Revision Date: 22-07-2009

Class: H1

Subject: Chemistry

Academic Session: 2020-2021

Books Recommended: Course Book Roger Norris

**Details of Syllabus**

S. No.	Chapter/Topic	Description
	Physical chemistry	
	<b>1 Atomic structure</b>	1.1 Particles in the atom and atomic radius, 1.2 Isotopes, 1.3 Electrons, energy levels and atomic orbitals, 1.4 Ionisation energy
	<b>2. Atoms, molecules and stoichiometry</b>	2.1 Relative masses of atoms and molecules, 2.2 The mole and the Avogadro constant, 2.3 Formulae, 2.4 Reacting masses and volumes (of solutions and gases),
	<b>3. Chemical bonding</b>	3.1 Electronegativity and bonding, 3.2 Ionic Bonding, Metallic Bonding, 3.4 Covalent bonding and coordinate (dative covalent) bonding, 3.5 Shapes of Molecules
	<b>4. States of matter</b>	4.1 The gaseous state: ideal and real gases and $pV = nRT$ , 4.2 Bonding and structure
	<b>5. Chemical energetics</b>	5.1 Enthalpy change, $\Delta H$ , 5.2 Hess's Law
	<b>6. Electrochemistry</b>	6.1 Redox processes: electron transfer and changes in oxidation number (oxidation state)
	<b>7. Equilibria</b>	7.1 Chemical equilibria: reversible reactions, dynamic equilibrium, 7.2 Bronsted-Lowry theory of acids and bases.
	<b>8. Reaction kinetics</b>	8.1 Rate of reaction, 8.2 Effect of temperature on reaction rates and the concept of activation energy.
	<b>Inorganic chemistry</b>	
	<b>9 The Periodic Table: chemical periodicity</b>	9.1 Periodicity of physical properties of the elements in Period 3, 9.2 Periodicity of chemical properties of the elements in Period 3, 9.3 Chemical periodicity of other elements.
	<b>10. Group 2</b>	10.1 Similarities and trends in the properties of the Group 2 metals, magnesium to barium, and their compounds
	<b>11. Group 17</b>	11.1 Physical properties of the Group 17 elements, 11.2 The chemical properties of the halogen elements and the hydrogen halides, 11.3 Some reactions of the halide ions, 11.4 The reactions of chlorine.
	<b>12. Nitrogen and sulfur</b>	12.1 Nitrogen and sulfur
	<b>Organic chemistry</b>	
	<b>13 An introduction to AS Level organic chemistry</b>	13.1 Formulae, functional groups and the naming of organic compounds, 13.2 Characteristic organic reactions, 13.3 Shapes of organic molecules; $\sigma$ and $\pi$ bonds
	<b>14. Hydrocarbons</b>	14.1 Alkanes, 14.2 Alkenes

S. No.	Chapter/Topic	Description
	<b>15. Halogen compounds</b>	15.1 Halogenoalkanes, describe the SN1 and SN2 mechanisms of nucleophilic substitution in halogenoalkanes including the inductive effects of alkyl groups
	<b>16. Hydroxy compounds</b>	16.1 Alcohols, classify alcohols as primary, secondary and tertiary alcohols, to include examples with more than one alcohol group.
	<b>17. Carbonyl compounds</b>	17.1 Aldehydes and ketones, the oxidation of secondary alcohols using acidified K <sub>2</sub> Cr <sub>2</sub> O <sub>7</sub> or acidified KMnO <sub>4</sub> and distillation to produce ketones.
	<b>18. Carboxylic acids and derivatives</b>	18.1 Carboxylic acids, 18.2 Esters.

Subject Teacher

Head of Department

Headmaster/Headmistress

Co-coordinator Academic Council



# Sadiq Public School

## Syllabus

Class: H1

Subject: Sociology

Academic Session: 2021-2022

Books Recommended: Cambridge International AS and A Level Sociology Course book by Chris Livesey.

### Details of Syllabus

S. No.	Chapter/Topic	Description
1.	Socialization and the creation of social identity	The difference between structuralist and interactionist views, Process of Socialization, Social construction of identities.
2.	Methods of Research	Types of data, Research Methods, Stages of Research Design.
3.	Family	Introduction to the study of family, Household and family types, Sociological perspective on the family.

Subject Teacher

Head of Department

Headmaster/Headmistress