



Class: S2

Subject: BIOLOGY

Academic Session: 2021-2022

Books Recommended: 1. TEXT BOOK BIOLOGY FOR 9

2. PUNJAB PRACTICAL NOTEBOOK

**Details of Syllabus**

S. No.	Chapter/Topic	Description
1	<b>CH#1 Introduction to Biology</b>	Introduction to Biology, Division & Branches of Biology, Interdisciplinary sciences, Quran and biology, Level of Organization and cellular organization.
2	<b>CH#2 Solving A Biological Problem</b>	Biological Method, steps of biological method, Malaria as an example of biological method, Data organization & analysis.
3	<b>CH#3 Biodiversity</b>	Biodiversity, Aims & basis of Classification, Two, Three and Five Kingdom System of classification, Binomial Nomenclature, Biodiversity and its conservation.
4	<b>CH#4 Cells and Tissues</b>	Microscopy and cell theory, Cellular structure & function, Prokaryotic and eukaryotic cell, Passage of molecules into and out of cell, Plant and animal tissues.
5	<b>CH#5 Cell Cycle</b>	Cell cycle, Phases and significance of Mitosis and Meiosis, differences between mitosis and meiosis.
6	<b>CH#6 Enzymes</b>	Characteristics of enzymes, Factors affecting enzyme activity, Mechanism of enzyme action.
7	<b>CH#7 Bioenergetics</b>	Energetics and role of ATP, Photosynthesis, Respiration, Aerobic and anaerobic respiration, Fermentation and its types.
8	<b>CH#8 Nutrition</b>	Nutrition in plants, Components of Human Food, effects of water and dietary fiber, Digestion in Humans, human alimentary canal, and role of liver, disorders of gut.
9	<b>CH#9 Transport</b>	Transport in Plants, Transport in Humans, blood, Structure and working of Heart, heartbeat, Cardiovascular Disorders, Myocardial infarction
	<b>practical</b>	Experiment no. 1-21

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 Subject Teacher

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 Head of Department

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 Headmaster/Headmistress



SADIQ PUBLIC SCHOOL

SYLLABUS

Class: S2

Subject: Islamiat

Academic Session: 2021-22

Books Recommended: Punjab Text Book Board Lahore

Details of Syllabus

S. No.	Chapter/Topic	Description
1	الجزء الأول	سورة الأنفال: الدرس الأول تا الدرس الثالث (مکمل)
2	الجزء الثاني	حديث 1-10
3	الجزء الثالث	موضوعاتي مطالعة: قرآن مجيد - علم کی فرضیت و فضیلت،
		اللہ تعالیٰ اور رسول صلی اللہ علیہ وسلم کی محبت و اطاعت - زکاة

Subject Teacher

Head of Department

Headmaster/Headmistress



# Sadiq Public School

## Syllabus

Class: S2

Subject: URDU

Academic Session: 2021-22

Books Recommended: اردو لازمی برائے جماعت نہم۔ حکومت پنجاب

اردو قواعد و انشا (پنجاب کریکولم اینڈ ٹیکسٹ بک بورڈ لاہور)

### Details of Syllabus

S. No.	Chapter/Topic	Description
1	نثری اسباق:	نصابی اسباق کے خلاصے، حوالہ متن اور اقتباسات کی تشریحات
	"ہجرت نبوی" تا "حوصلہ نہ ہارو، آگے بڑھو"	محاورات و مرکبات کا جملوں میں استعمال۔ علم بیان۔ الفاظ متضاد
		معروضی و مشقی سوالات کے جوابات
2	منظومات:	منظومات کے اشعار کی تشریحات، خلاصے،
	"حمد" تا "پوستہ رہ شجر سے امید بہار رکھ"	مشقی و معروضی سوالات کے جوابات، الفاظ کے مفہیم و مطالب
		مطلع، مقطع، تخلص، ردیف، قافیہ و دیگر شعری وادبی اصطلاحات
3	غزلیات:	غزلیات کے اشعار کی تشریحات، الفاظ کے مفہیم و مطالب، مشقی و معروضی سوالات کے جوابات
	"میر تقی میر" تا "بہادر شاہ ظفر"	
4	گرائمر	خطوط نویسی، درخواست نویسی، مکالمہ نویسی، کہانی نویسی
		غلط فقرات کی درستی، محاورات و ضرب الامثال کا جملوں میں استعمال
		قواعد و انشاء

Subject Teacher

Head of Department

Headmaster/Headmistress



# Sadiq Public School

## Syllabus

Class: S2

Subject: Chemistry

Academic Session: 2021-2022

Books Recommended: Punjab text book (PTB) Class 9<sup>th</sup>

### Details of Syllabus

Sr.No.	Chapter/Topic	Description
1.	Fundamentals of chemistry	Branches of chemistry, Basis definitions, chemical species, Avogadro's number and Mole, chemical calculations
2.	Structure of atoms	Theories and experiments related to atomic structure ( Rutherford atomic model & Bohr's atomic model), Electronic configuration, Isotopes and its applications
3.	Periodic table and periodicity of properties	Periodic table, periodic properties ( atomic radius, ionization energy, electron affinity, shielding effect, electronegativity)
4.	Structure of Molecules	Chemical bonds, Types of chemical bond ( ionic bond, covalent bond, coordinate covalent bond, polar & non-polar bond, metallic bond), intermolecular forces, nature of bonding and their properties
5.	Physical states of matter	Typical properties related to gases, liquids and solids, boyle's law, Charles law, evaporation, vapor pressure, boiling point , freezing point, diffusion, melting point, allotropy
6.	Solutions	Solution, aqueous solution , solute and solvent, saturated, unsaturated, supersaturated solution and dilution of solution, types of solutions, concentration units, comparison of solution, suspension and colloids
7.	Electrochemistry	Oxidation and reduction, oxidation state and rules for assigning oxidation states, oxidizing and reducing agents, oxidation-reduction reactions, electrochemical cells, electrochemical industries, corrosion and its prevention, electroplating and its examples
8.	Chemical reactivity	Metals and its physical & chemical properties, comparison of reactivities of alkali and alkaline earth metals, non-metals and its physical & chemical properties

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Subject Teacher

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Head of Department

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Headmaster/Headmistress



# Sadiq Public School

## Syllabus

Class: S2

Subject: English

Academic Session: 2021-2022

Books Recommended: 1. English 9 (PTB)

2. English Grammar and Composition (9-10)

### Details of Syllabus

S. No.	Chapter/Topic	Description
1	Units	Translation from English to Urdu, Words / Meanings, Sentence
		Making, Q /A, True /False, Match the columns and Complete Exercises.
2	Poems	Paraphrase / Summary Writing, Q / A, Exercises.
3	Grammar and Composition (9-10)	Use of Verb, Translation into English, Voice, Letter Writing, Story
		Writing, Dialogue Writing, Comprehension, Paragraph Writing.

Subject Teacher

Head of Department

Headmaster/Headmistress



# Sadiq Public School

## Syllabus

Class: S2

Subject: MATHEMATICS

Academic Session: 2021-2022

Books Recommended: MATHEMATICS 9<sup>th</sup> (Science Group)

P.T.B. B LAHORE

### Details of Syllabus

S. No.	Chapter/Topic	Description
01	Chapter # 01	Matrices & Determinant
02	Chapter # 02	Real & Complex No.
03	Chapter # 03	Logarithm
04	Chapter # 04	Algebraic expression & Formulas
05	Chapter # 05	Factorization
06	Chapter # 06	Algebraic Manipulation
07	Chapter # 07	Linear Equation and Inequalities
08	Chapter # 08	Linear Graphs and Their Application
09	Chapter # 09	Introduction to Coordinate Geometry
10	Chapter # 10	Congruent Triangle
11	Chapter # 11	Parallelogram and Triangles
12	Chapter # 12	Line Bisectors and Angle Bisectors
13	Chapter # 13	Sides and angle of a Triangle
14	Chapter # 14	Ratio & Proportion
15	Chapter # 15	Pythagoras Theorem
16	Chapter # 16	Theorems Related With Area

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Subject Teacher

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Head of Department

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Headmaster/Headmistress



# Sadiq Public School

## Syllabus

Class: S2 Subject: Pakistan Studies

Academic Session: 2021- 2022

Books Recommended: Pakistan Studies Punjab Text Book

### Details of Syllabus

S. No.	Chapter/Topic	Description
1	Ideological Basis of Pakistan	Sources of Ideology, Importance of Ideology, Basic Features of Ideologies
		Elements of Ideology of Pakistan, Two Nation Theory,
2	The Pakistan Movement and Emergence of Pakistan	Aligarh Movement, Partition of Bengal, Muslim League in 1906, Khilafat Movements
		Fourteen Points of Quaid-e- Azam, Role of Quaid –e-Azam in making of Pakistan, Early problems of Pakistan
		Constitution making in Pakistan, Separation of East India
3	Land and Environment	Location of Pakistan, Physical features of Pakistan, Climate of Pakistan, Major Glaciers of Pakistan
		Forests, Natural regions of Pakistan, Major Environmental Hazards and the Remedies
4	Women’s Empowerment	Women’s rights in Islam, Women’s role in Pakistan Movements
		Violence against women, Protection of Women’s Rights

Subject Teacher

Head of Department

Headmaster/Headmistress



**SADIQ PUBLIC SCHOOL**

**SYLLABUS**

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**Class:** S2

**Subject:** PHYSICS

**Academic Session:** 2021-2022

**Books Recommended:** Physics 09

Punjab Text book

**Details of Syllabus**

S.No.	Chapter/Topic	Description
1	Unit # 01. Physical Quantities and Measurement	Theory + MCQs + Exercise Q + Numericals
2	Unit # 02. Kinematics	Theory + MCQs + Exercise Q + Numericals
3	Unit # 03. Dynamics	Theory + MCQs + Exercise Q + Numericals
4	Unit # 04. Turning Effect of Forces	Theory + MCQs + Exercise Q + Numericals
5	Unit # 05. Gravitation	Theory + MCQs + Exercise Q + Numericals
6	Unit # 06. Work and Energy	Theory + MCQs + Exercise Q + Numericals
7	Unit # 07. Properties of Matter	Theory + MCQs + Exercise Q
8	Unit # 08. Thermal Properties of Matter	Theory + MCQs + Exercise Q
9	Unit # 09. Transfer of Heat	Theory + MCQs + Exercise Q + Numericals

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**Subject Teacher**

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**Head of Department**

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**Headmaster/Headmistress**





# Sadiq Public School

## Syllabus

Class: S2

Subject: Computer Science

Academic Session: 2021-2022

Books Recommended: Computer Science & IT 9 by Punjab Curriculum and Textbook Board, Lahore

### Details of Syllabus

S. No.	Chapter/Topic	Description
1	Chapter 1 Problem Solving	How to solve a problem related to software creation
2	Chapter 2 Binary System	Conversion and representation of numbers in computer
3	Chapter 3 Networks	Structure of networks, its need and layers
4	Chapter 4 Data and Privacy	Protection of data and privacy from others using encryption
5	Chapter 5 Designing Website	Basics of designing website using HTML

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Subject Teacher

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Head of Department

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Headmaster/Headmistress