CLASS 9 CURRICULUM
ACADEMIC YEAR 2021-2022

ENGLISH LANGUAGE 1123

OXFORD ENGLISH: AN INTERNATIONAL APPROACH 4 (student book and workbook)

The range and variety of textual material contained in Oxford English: An International Approach 4 allows students to engage with a wide spectrum of current global issues, to read contemporary and classic prose from across the world, and also to learn about a variety of historical events and periods. The texts have been selected to enable students to explore concepts and ethical issues which are relevant to their lives, and to develop their critical faculties, understanding, and empathy. All the texts have been chosen to challenge students, and to encourage them to express opinions and construct arguments in speech and writing.

UNITS:

Unit 8- Viewpoint
Unit 9- Colour
Unit 7- In the Dark
Unit 5- Time
Unit 4- Reaching Out
Unit 2- First Impressions

LEARNING OBJECTIVES:
- Understand the meaning of texts (Explicit and Implicit Meaning)
- Compare texts (Build critical thinking skills)
- Cause and Effect Passages to build understanding of structure in writing
- Expand vocabulary (Build fluency)
- Extend perspective and view topics from different angles
- Extend experience and understanding of colour in art, science and nature
- Skim and scan texts for information
- Examine writer's craft
- Identify audience and purpose
- Differentiate between Fact and Opinion
- Analyse point of view in writing
- Structure reports, letters and speeches
- Develop ideas and logically structure arguments

COMPREHENSIONS- Unseen Passages/ Past Papers (O Levels)
SUMMARY WRITING- Informative Passages

GRAMMAR
- Tenses
- Analogies
- Punctuation- Editing
- Prefixes and Suffixes
- Synonyms and Antonyms
- Direct and Indirect Speech
- Run-on Sentences
- Collocations (Word Pairs)
- Simple-Complex Sentence Structures
- Connectors
- Conjunctions
- Word Forms (nouns, adjectives, adverbs)

LITERATURE IN ENGLISH 2010
- Stories of Ourselves Vol 2.
  - Critical analysis of the writer's craft
  - Style and structure of the texts
  - Recall, interpretation, evaluation and connect
  - Analysing characters
  - Produce a personal response towards the text

SECOND LANGUAGE URDU 3248
O LEVEL URDU (Batool Ali) & (Mujeeb-ur-Rehman)

مضمون نویسی۔

تفہیم۔

خط نویسی۔

ترجمہ نویسی۔

محاورات۔

مکالمہ نگاری۔

رپورٹ نگاری۔

اردو گرامر   (اضداد ، واحد/جمع)

خلاصہ نگاری۔

جملوں کی ساخت تبدیل کریں۔

زمانے (ماضی، حال اور مستقبل)

تلخیص نگاری۔

خالی جگہ پُر کریں۔

ISLAMIYAT 2058
ISLAMIAT: A CORE TEXT FOR O LEVEL
ISLAM: BELIEFS AND PRACTICES
WHEN THE MOON SPLIT

1. Quranic Passages (1-15)

2. Ahadith (1-15)

3. The life and importance of the Prophet Muhammad (SAW)
   - Life in Makkah
   - Life in Madinah
   - Conduct and character of Prophet Muhammad (SAW)

4. Pillars of Islam

5. Articles of Faith

MATHEMATICS (SYLLABUS D) 4024

MATHEMATICS 3 NEW SYLLABUS
- Indices and Standard Form (Chapter 4)
- Solutions and Quadratic Equations (Chapter 1)
- Linear Inequalities (Chapter 3)
- Arc- Length and Area of Sector (Chapter 10)

MATHEMATICS 2 NEW SYLLABUS
- Pythagoras' Theorem (Chapter 10)
- Trigonometric Ratios (Chapter 11)
- Simultaneous Equations (Chapter 2)
- Relations and Functions (Chapter 7)
- Sets Language (Chapter 14)
- Graph of Quadratic Equations (Chapter 5)
- Averages of Statistics (Chapter 17)
- Congruence and Similarity (Chapter 8)

ADDITIONAL MATHEMATICS 4037

NEW ADDITIONAL MATHEMATICS
CHAPTER 2: SIMULTANEOUS EQUATIONS
- 2.1 Simultaneous Linear Equations in Two Unknowns
- 2.2 Simultaneous Linear and Non-Linear Equations in Two Unknowns

CHAPTER 5: REMAINDER AND FACTOR THEOREMS
- 5.1 Polynomial Identities
- 5.2 Remainder Theorem
- 5.3 Factor Theorem
- 5.4 Solving Cubic Equations

CHAPTER 6: MATRICES
- Represent information as a matrix
- Addition, Subtraction and Scalar Multiplication of Matrices
- Multiplication of Matrices
- Determinant and Inverse of a 2 x 2 Matrix
- Solving Simultaneous Equations by a Matrix Method

CHAPTER 3: INDICES, SURDS AND LOGARITHMS
- 3.1 Indices (Exponents) and Surds
- 3.2 Exponential Equations
- 3.3 Logarithms
- 3.4 Common and Natural Logarithms
- 3.5 Laws of Logarithms
- 3.6 Logarithmic Equations

CHAPTER 4: QUADRATIC EXPRESSIONS AND EQUATIONS
- 4.1 Maximum/ Minimum Value of a Quadratic Expression
- 4.2 Roots of a Quadratic Equation
- 4.3 Solving Quadratic Inequalities

CHAPTER 7: COORDINATE GEOMETRY
- 7.1 Distance between Two Points
- 7.2 Midpoint of the Line Joining Two Points
- 7.3 Gradient of a Line Passing Through Two Points
- 7.4 Equations of Straight Lines
- 7.5 Equations of Parallel and Non-Parallel Lines
- 7.6 Equations of Perpendicular Lines
- 7.7 Perpendicular Bisector
- 7.8 Intersection of a Straight Line and a Curve

CHAPTER 8: LINEAR LAW

CHAPTER 9: FUNCTIONS
- 9.1 Introduction to Functions
- 9.2 Composite Functions
- 9.3 Inverse Functions
- 9.4 Absolute Valued Functions

COMPUTER SCIENCE 2210

CAMBRIDGE IGCSE COMPUTER SCIENCE

CHAPTER 1: BINARY SYSTEMS AND HEXADECIMAL
- Introduction
- The binary system
- Measurement of the size of computer memories
- Example use of binary
- The hexadecimal system
- Use of the hexadecimal system

CHAPTER 2: COMMUNICATION AND INTERNET TECHNOLOGIES
- Introduction
- Data transmission
- Error checking methods
- Internet technologies

CHAPTER 4: OPERATING SYSTEMS AND COMPUTER ARCHITECTURE
- Introduction
- Operating systems
- Interrupts and Buffers
- Computer architecture
- The fetch-execute cycle

CHAPTER 5: INPUT AND OUTPUT DEVICES
- Introduction
- Input devices
- Output devices

CHAPTER 6: MEMORY AND DATA STORAGE
- Introduction
- File formats
- Lossless and lossy file compression

BIOLOGY 5090

FUNDAMENTAL BIOLOGY FOR CAMBRIDGE O LEVEL

CHARACTERISTICS AND CLASSIFICATION OF LIVING ORGANISMS

- 1.1 Biology is the study of life and living organisms
- 1.2 Organisms are made up of cells
- 1.3 The organization of living organisms
- 1.4 Movement in and out of cells
- 1.5 Enzymes control biochemical reactions in living organisms
- 1.6 Enzyme experiments and the scientific method

ORGANISATION AND MAINTENANCE OF ORGANISMS

- 2.1 Photosynthesis and plant nutrition
- 2.2 The rate of photosynthesis
- 2.3 The control of photosynthesis
- 2.4 Photosynthesis and the environment
- 2.5 The leaf and photosynthesis
- 2.6 Plants and minerals

Animal Nutrition and Digestive System
Transportation in Plants

CHEMISTRY 5070

CHEMISTRY MATTERS 4TH EDITION

- Kinetic Particle Theory
- Measurement and Experimental Techniques
- Separation and Purification
- Elements, Compounds and Mixtures
- Ionic Bonding
- Atomic Structure
- Covalent/ Metallic Bonding
- The Periodic Table
- Energy Changes
- Speed of Reaction

PHYSICS 5054

PHYSICS MATTERS 4TH EDITION

THEME 1 GENERAL PHYSICS
- Chapter 1: Measurement
- Chapter 2: Kinematics
- Chapter 3: Forces
- Chapter 4: Mass, Weight and Density
- Chapter 5: Turning Effect of Forces
- Chapter 6: Energy, Work and Power
- Chapter 7: Pressure

THEME 2 THERMAL PHYSICS
- Chapter 9: Kinetic Model of Matter

DEFORMATION (not from book)

PAKISTAN STUDIES 2059

HISTORY AND CULTURE OF PAKISTAN- PAPER 1
- Cultural and historical background to the Pakistan Movement
- Religious reformers
- Decline of the Mughal empire
- East India Company and British Colonial Rule
- War of independence
- Sir Syed Ahmed Khan and the Aligarh Movement
- British rule and Constitutional reforms
- Pakistan Movement 1906-1940

ENVIRONMENT OF PAKISTAN- PAPER 2
- The natural topography of Pakistan
- Climate
- Water
- Forests
- Agriculture
- Livestock

ACCOUNTING 7707

BUSINESS ACCOUNTING 1 (13TH EDITION)

PART 1: INTRODUCTION TO DOUBLE ENTRY BOOKKEEPING
- The accounting equation and the statement of financial position
- The double entry system for assets, liabilities and capital
- Inventory
- The effect of profit or loss on capital and the double entry system for expenses and revenues
- Balancing-off accounts
- The trial balance

PART 2: THE FINANCIAL STATEMENTS OF SOLE TRADERS
- Income statements: an introduction
- Statements of financial position
- Income statements and statements of financial position: further considerations
- Accounting concepts and assumptions

BUSINESS STUDIES 7115

IGCSE BUSINESS STUDIES

SECTION 1: UNDERSTANDING BUSINESS ACTIVITY
- Business activity
- Classification of businesses
- Enterprise, business growth and size
- Types of business organisation
- Business objectives and stakeholder objectives

SECTION 2: PEOPLE IN BUSINESS
- Motivating workers

ECONOMICS 2281

ECONOMICS CAMBRIDGE IGCSE (SUSAN GRANT)
SECTION 1: THE BASIC ECONOMIC PROBLEM
- Unit 1 Scarcity
- Unit 2 Factors of Production
- Unit 3 Opportunity Cost

SECTION 11: ALLOCATION OF RESOURCES
- Unit 4 Market and Mixed Economies

SECTION V1: ECONOMIC INDICATORS
- Unit 41 Living Standards

SECTION V11: DEVELOPED AND DEVELOPING COUNTRIES
- Unit 42 Different Stages of Development
- Unit 43 Inequality and Poverty
- Unit 44 Population Growth
- Unit 45 The Effects of Changes in Population
- Unit 46 Problems of Development

SOCIOLOGY 2251

AN INTRODUCTION TO SOCIOLOGY- KEN BROWNE (Main Course Book)
CAMBRIDGE IGCSE SOCIOLOGY COURSEBOOK- Jonathan Blundell
(Reference Book)
CHAPTER 1: Studying Society (1) Introducing Sociology: Key Ideas and Concepts
- What is sociology?
- Social structure
- Social processes
- Social issues, social problems and social policy
- Different views of society

CHAPTER 2: STUDYING SOCIETY (2). DOING SOCIOLOGICAL RESEARCH
- Key issues in social research
- Quantitative and qualitative data
- Primary and secondary sources
- Social surveys
- Longitudinal studies
- Observation
- Planning your own research project

ART AND DESIGN 6090

1. Introduction to Art Syllabus 6090.
2. Discussing Assessment Objectives.
3. Using form, line, tone, colour, shape and texture.
4. Spatial relationships, compositions, layout.
5. Applying the knowledge of colour and colour theory in observing single objects like a bottle, a fruit, a vegetable.
6. Observation of 3-D forms (cube, sphere, cylinder, pyramid, cone).
7. Shading techniques and different kinds of light (reflected light, shadows, reflections, highlights, contrast).
8. Drawing and shading other forms of 3-D objects (crushed can, boxes, chairs, football).
9. Drawing group compositions in relation to perspective.
10. Different forms of perspective (arial, front and side).
11. Experiencing textures like metal, glass, plastic, silk.
12. Drawing and studying a variety of objects like dry leaves, jewelry, fruits, vegetables, tools, shells, feathers, bottles, sports goods etc.
13. Learning tonal variations with mediums like pencil, charcoal and colour pencils.