



## **CLASS 8 CURRICULUM ACADEMIC YEAR 2023-2024**

### **LANGUAGE**

#### **SECONDARY ENGLISH BOOK 3**

### **GRAMMAR**

- Nouns
- Parts of a Sentence
- Verbs
- Colloquial Language
- Adjectives
- Tenses
- Word Families
- Prepositions
- Synonyms/ Antonyms/ Homophones
- Types of Sentences
- Prefixes/ Suffixes
- Modals
- Figurative Language
  1. Idioms
  2. Similes
  3. Metaphors
  4. Proverbs
- Tautology
- Malapropisms

## **PUNCTUATION**

- The Capital Letter and the Full Stop
- Capital Letters for Proper Nouns
- The Question Mark
- The Exclamation Mark
- The Comma
- The Apostrophe
- Abbreviations
- The Colon
- Speech

## **CREATIVE WRITING**

- 'Tall' Stories (Incredible or Unbelievable Stories)
- Opening Paragraphs
- Desperate Moments
- Autobiography
- Descriptive Writing
- Film Reviews
- Persuasive Writing
- Argumentative Writing
- Formal Writing
- Using Effective Words
- Summary Writing

## **VOCABULARY**

- Spelling
- Missing Words
- Match the Meanings
- Solving Word-Equations
- Single Words
- Word Forms
- Colour Symbols
- Cryptic Clues
- Generalizations and Specific Statements
- Word Squares
- Odd One Out
- Jumbled Words
- Sweeping Statements
- Assumptions
- Compound Words
- Premises

## LITERATURE

- Julius Caesar by William Shakespeare
- The Origins Book of Verse:
  1. Dulce Et Decorum Est- Wilfred Owen
  2. The Road Not Taken- Robert Frost
  3. The Tyger- William Blake
  4. The Men That Don't Fit In- Robert Service
- Animal Farm by George Orwell

## URDU

- 1: جملوں کی ساخت میں تبدیلی
- 2: مضمون
- 3: خط نویسی (رسمی اور غیر رسمی خط)
- 4: ترجمہ نویسی
- 5: محاورات (معنی اور جملوں میں استعمال)
- 6: واحد/جمع
- 7: الفاظ/ضد
- 8: مذکر/مؤنث
- 9: الفاظ/مترادف
- 10: مخفی عبارت (مددگار الفاظ کے ذریعے خالی جگہ پُر کریں)
- 11: املا (الفاظ اور عبارت)
- 12: تفہیم
- 13: کاروانِ اُردو 8
- 14: او لیول اُردو (GCSE، اسلم خان)
- 15: تشبیہات اور جملے
- 16: متشابہ الفاظ
- 17: خلاصہ نویسی

# **MATHEMATICS**

## **MATHEMATICS 1 NEW SYLLABUS**

Chapter 13: Perimeter and Area of Plane Figures

## **MATHEMATICS 2 NEW SYLLABUS**

Chapter 1: Direct and Inverse Proportions

Chapter 2: Linear Graphs and Simultaneous Linear Equations

Chapter 3: Expansion and Factorisation of Quadratic Expressions

Chapter 4: Further Expansion and Factorisation of Algebraic Expressions

Chapter 5: Quadratic Equations & Graphs

Chapter 6: Algebraic Fractions & Formulae

Chapter 7: Relations & Functions

Chapter 10: Pythagoras' Theorem

Chapter 12: Volume and Surface Area of Pyramids, Cones and Spheres

# **SCIENCE**

## **INTERNATIONAL SECONDARY SCIENCE 3**

- Plants
  - Why we need plants
  - Water and minerals
- Circulation
  - Blood
  - Anaemia
  - The Circulatory System
  - Diet and Fitness
- Variation and Classification
  - Using keys
  - Chromosomes
  - Investigating inheritance
  - Selective breeding
  - Darwin's theory of evolution
  - Moving genes
  - Using genes

- Material Properties
  - Atomic structure
  - Finding electrons
  - Discovering the nucleus
  - Protons, electrons and the periodic table
  - Proton number, nucleon number and isotopes
  - The Group 1 elements
  - The Group 2 elements
  - The Group 7 elements
  - Chlorinating water
  - Periodic trends
  - Inside sub-atomic particles
- The Reactivity Series
  - The reactions of metals with oxygen
  - The reactions of metals with water
  - The reactions of metals with acids
  - The reactivity series
  - Nickel in the reactivity series
  - Metal displacement reactions
  - Using the reactivity series: extracting metals from their ores
  - Writing symbol equations
- Rates of Reaction
  - Rates of reaction
  - Concentration and reaction rate
  - Temperature and reaction rate
  - Surface area and reaction rate
  - Catalysts and reaction rate
- Sound
  - Sound, vibrations and energy transfer
  - Detecting sounds
  - Loudness and the decibel scale
  - Loudness, amplitude and oscilloscopes
  - Pitch and frequency
  - Echoes
- Magnetism
  - The properties of magnets
  - Magnetic fields
  - Electromagnets
  - Using electromagnets

- Energy
  - Hot and cold
  - Energy transfer: conduction
  - Energy transfer: convection
  - Energy transfer: radiation
  - Cooling by evaporation
  - The world's energy needs
  - Fossil fuels
  - Generating electricity
  - Renewable energy sources: solar and geothermal
  - Renewable energy sources: using water and wind
  - Energy for the future

# **GEOGRAPHY**

## **GLOBAL GEOGRAPHY FOR PAKISTAN BOOK 3**

### OUR WARMING WORLD: CLIMATE CHANGE

- The greenhouse effect
- Natural climate change
- The enhanced greenhouse effect
- Evidence for climate change
- Impacts of climate change
- Climate change and Pakistan
- Tackling climate change
- Topographic maps

### WEATHER HAZARDS: TROPICAL CYCLONES

- What are weather hazards?
- The distribution and cause of tropical cyclones
- Tropical cyclone case study: Hurricane Irma (2017)
- Tropical cyclone case study: Typhoon Haiyan (2013)
- How might climate change affect the location and frequency of tropical cyclones?
- False-colour satellite images

### WEATHER HAZARDS: DROUGHT

- What is drought and what causes it?
- Drought case study: California
- Drought case study: the Sahel
- How might climate change affect droughts?

## ENERGY: A KEY RESOURCE

- World energy use
- Where is most energy used?
- Energy from fossil fuels: coal, oil and gas
- Case study: natural gas in Pakistan
- Case study: China: a coal giant
- Renewable energy: solar and wind power
- Nuclear power
- Energy choices

## CONNECTING PLACES: TRANSPORT AND TRADE

- What is trade?
- Trade, transport and communications
- Globalisation
- Global trade: winners and losers
- Can trade be fairer?
- Pakistan and global trade
- Pakistan and China's Belt and Road initiative
- Interpreting flow-line maps

## DEVELOPMENT CHOICES

- What is development?
- How is the world developing?
- How wealthy are different parts of the world?
- What is people's quality of life in different parts of the world?
- How can we measure development?
- What are Pakistan's development challenges?
- Development in two countries: Japan and China
- How to add data to maps

## CHINA: GLOBAL SUPERPOWER

- China's physical geography
- China's human geography
- Life in rural China
- Life in urban China
- China's development challenges
- Tackling China's development challenges
- Choropleth maps

## USA: GLOBAL SUPERPOWER

- The physical geography of the USA
- The human geography of the USA
- Region case study: California
- Region case study: Florida
- Changing USA: migration
- USA and China: comparing two superpowers

## A CONNECTED AND SUSTAINABLE WORLD

- A more connected world
- The international community
- Towards a sustainable world
- Geography and global citizens

# HISTORY

## OXFORD HISTORY FOR PAKISTAN BOOK 3

### THE WORLD

- The French Revolution
  - The storm breaks
  - The States General: 1789
  - The fall of the Bastille (14 July 1789)
  - Execution of the king
  - The Reign of Terror (1793-1794)
  - The Directory
- The Revolutionary and Napoleonic Wars
  - The Revolutionary Wars (1793-1802)
  - The Napoleonic Wars (1803-1815)
  - The end of Napoleon (1814-1815)
- The American War of Independence: 1776 to 1783
  - The British colonies
  - Causes of the quarrel
  - The defeat of France: 1763
  - The Boston Tea Party: 1773
  - The War of Independence (1776-1783)
  - The US constitution
- China until 1916
  - The Manchu dynasty
  - China and the West
  - China and trade
  - The Anglo-Chinese (Opium) Wars
  - The Self-Strengthening Movement
  - The Sino-Japanese War (1894-1895)
  - Reforms
  - The 1911 Revolution



- Japan until 1905
  - The United States opens up Japan
  - Japan modernizes
  - The Meiji Restoration: 1868
  - Japan expands into Asia
  - The Russo-Japanese War (1904-1905)
- South-East Asia
  - The coming of the west
  - South-East Asia in the 19<sup>th</sup> century
  - Colonialism in South-East Asia
  - Nationalism in South-east Asia
- World War I: 1914 to 1918
  - The fighting
  - The main contenders
  - New weapons and warfare
  - The Americans enter the war
  - Total warfare
  - Some causes of the war
- The end of World War I: the Treaty of Versailles
  - The Treaty of Versailles
  - Turkey
  - Austro-Hungary
  - Germany
  - The League of Nations
- World War I: social and economic effects
  - Inventions, discoveries and developments
  - Telephones and radios
  - Medicine
  - The rich and the poor
  - The position of women
  - The rise of the United States and Japan
  - Nationalism
- World War II
  - The Battle of Britain
  - The war in Europe and Africa
  - The Russian front
  - America and Japan enter the war
  - The end of the war in the West
  - The end of the war in Asia
- The results of World War II
  - The United Nations
  - Superpowers and the Cold War
  - Nationalism and decolonization
  - The industrialization of Asia

- The nuclear age
- New inventions and developments
- The United Nations and the Cold War
  - The United Nations
  - The General Assembly
  - The Security Council
  - The Secretariat
  - Agencies and organizations
  - Peacekeeping
  - The Cold War
  - Cold War tactics
  - The Cuban Missile Crisis:1962

#### PAKISTAN AND THE SUBCONTINENT

- India: 1780-1856
  - The India Act: 1784
  - British expansionism
  - The Burmese wars
  - The Russian problem
  - The Sikhs
- Social and economic life until 1857
  - Economy
  - Land tenure
  - Education
  - Communications
  - Agriculture
  - Humanitarian laws
  - Law and justice
  - The Indian Civil Service
- The War of Independence
  - The real causes
  - The more immediate causes
  - The course of the war
  - Reasons for the failure of the war
- The peak of British power-India:1858 to 1905
  - The Government of India Act: 1858
  - The first viceroy
  - Indian Councils Act:1861
  - Lord Mayo (1869-1872)
  - Lord Lytton (1876-1880)
  - Lord Ripon (1880-1884)
  - Lord Dufferin (1884-1888)
  - Indian National Congress:1885
  - Lord Curzon (1899-1905)

- The road to independence 1900 to 1940
  - Indian Councils Act:1892
  - The All-India Muslim League:1906
  - World War I (1914-1918)
  - Montagu-Chelmsford(Montford) Reforms: 1921
  - Round Table Conference: 1930-1932
  - The Government of India Act: 1935
- India: 1939 to 1947
  - The Lahore Resolution on Pakistan
  - Cripps Mission: 1942
  - Simla Conference:1945
  - Cabinet Mission:1946
  - Attlee government
  - Indian Independence Bill July:1947
  - The Boundary Commission
- The partition
  - Refugees
  - The princely states
  - Bengal
  - Kashmir
- The Boundary Commission and its findings
  - The North West Frontier Province
  - Kashmir
  - Bengal
  - The Gurdaspur and Jalandhar region
- Pakistan and Bangladesh
  - Grievances
  - Ayub Khan
  - Yahya Khan
  - Elections: 1970
  - The Civil War: 1971
- Problems facing the young in Pakistan
- Mohammad Ali Jinnah: the Quaid-i-Azam

# **ISLAMIYAT**

## **AN INTRODUCTION TO ISLAMIYAT- HISTORY, BELIEFS AND PRACTICES**

### **CHAPTER 1: MAJOR THEMES OF THE QURAN**

- Surah Baqura 2:255 (Ayat al-Kursi)
- Surah al-An'am (6:101-103)

- Surah Fussilat (41:37)
- Surah al-Shura (42:4-5)
- Surah al-Ikhlās (112)
- Surah al-Fatihah (1)
- Surah al-Baqarah (2:21-22)
- Surah al-'Alaq (96:1-5)

#### CHAPTER 3: THE LIFE AND IMPORTANCE OF HAZRAT MUHAMMAD

- Historical background of Makkah Mukaramah and the dominance of the Quraysh
- The birth and early years of Hazrat Muhammad (pbuh)
- The call to prophethood
- Opposition from the Quraysh
- Migration to Abyssinia
- The Year of Grief

#### CHAPTER 5: AHADITH FOR SPECIAL STUDY

- Sahih Muslim Hadith No.196
- Sahih Muslim Hadith No. 170 and Sahih Bukhari Hadith No. 13
- Sahih Muslim Hadith No. 176
- Sahih Muslim Hadith No. 108
- Sahih Muslim Hadith No. 2335 and Sahih Bukhari Hadith No. 2989
- Sahih Muslim Hadith No. 177
- Sahih Muslim Hadith No. 4886
- Sahih Muslim Hadith No. 4941

#### CHAPTER 8: THE ARTICLES OF FAITH

- Tauheed, belief in the oneness of Allah
- Belief in the Angels, their nature and duties
- Belief in the divinely revealed books, their content and purpose
- Belief in the prophets of Allah and their significance
- Belief in Allah's predestination and decree
- Belief in resurrection, the Day of Judgement and its significance

#### CHAPTER 8: THE PILLARS OF ISLAM

- The Shahadah- meaning and significance
- Salat-Prayers
- Saum- Fasting
- Zakat-Almsgiving
- Hajj- the annual pilgrimage

# **COMPUTER SCIENCE**

## **OXFORD INTERNATIONAL LOWER SECONDARY COMPUTING BOOK 8**

### **CHAPTER 1**

#### THE NATURE OF TECHNOLOGY: UNDERSTANDING NETWORKS

- 1.1 Network hardware
- 1.2 How a network fits together
- 1.3 Sending messages over the internet
- 1.4 Sending messages: a simulation
- 1.5 Connecting to a network
- 1.6 In the cloud

### **CHAPTER 2**

#### DIGITAL LITERACY: COMPUTERS AND LEARNING

- 2.1 Using computers for learning
- 2.2 Using computers for discovery
- 2.3 What is e-learning?
- 2.4 Starting your e-learning project
- 2.5 Create an e-learning slide
- 2.6 Add a test question

### **CHAPTER 3**

#### COMPUTATIONAL THINKING: TEAM MANAGER

- 3.1 Make a list
- 3.2 Work with list elements

### **CHAPTER 5**

#### MULTIMEDIA: CREATING AND SHARING DIGITAL MEDIA ASSETS

- 5.1 Plan a media project
- 5.2 Understand requirements
- 5.3 Make technology choices
- 5.4 Create and share content
- 5.6 Make and share the final cut

### **CHAPTER 6**

#### NUMBERS AND DATA: MOBILE MEDICAL SERVICES

- 6.1 What medical supplies do you have?
- 6.2 Surplus or shortfall
- 6.3 Can you do more?
- 6.4 What to order?
- 6.5 Summary data

# **ROBOTICS**

## **MINDSTORMS EV3**

### **LEVEL 1**

- Introduction to EV3
- Construction of basic robot
- Robot mobility and programming
- Use of sensors

### **LEVEL 2**

- Construction of complex robots
- Maneuvering IR and Bluetooth control

### **LEVEL 3**

- Concept of extension in robots
- Introduction to advanced operations and function blocks
- Complex programming

# **ART & DESIGN**

- Observational drawing/sketching
- Elements of Art (line, shape, form, value, colour, texture, space)
- Principles of Art (balance, unity, rhythm, contrast, emphasis, movement, repetitive pattern)
- Colour wheel (tints, shades, tones)
- Realistic drawing with colour pencils
- Surrealistic art inspired by Salvador Dali
- Islamic art (geometrical patterns)
- Monochromes (tonal variation)
- Abstract art
- Mandala art
- Still life
- Repetition with variation
- Miniature painting
- Calligraphy/ typography
- Proportion drawing
- Perspective drawing
- Mood board

**ART HISTORY**

Students will research information on the life and works of CLAUDE MONET (impressionism). They will prepare works of art based on their understanding of the artist, his time and place in history, and his works.