



**CLASS 11 CURRICULUM
ACADEMIC YEAR 2023-2024**

ENGLISH LANGUAGE 1123

**CAMBRIDGE O LEVEL ENGLISH LANGUAGE SECOND EDITION
(JOHN REYNOLDS/ PATRICIA ACRES) HELEN TONER**

CREATIVE WRITING

1. Descriptive writing
2. Narrative writing
3. Directed writing (letters/e-mails, reports, articles, speeches)

READING COMPREHENSION/ SUMMARY WRITING

Chapter 3: Reading Comprehension

Chapter 5: Summary Writing

Chapter 7: How writers achieve effects

Chapter 14: Summary content points relevance and cohesion

LITERATURE IN ENGLISH 2010

- Songs of Ourselves Vol 2 Part 4
- Othello
 - Critical Analysis
 - Encouraging and developing personal response
 - Supporting answers with quotations from the text
 - Study of themes and use of motifs
 - Symbolism in Literature
 - Character analysis
 - Sequence of plot and structural examination of the text

MATHEMATICS (SYLLABUS D) 4024

MATHEMATICS 4 NEW SYLLABUS

CHAPTER 1: LINEAR INEQUALITIES IN TWO VARIABLES

- 1.1 Linear inequalities in Two Variables
- 1.2 Application of Systems of Linear Inequalities in Two Variables in Real-World Contexts

CHAPTER 2: FURTHER SETS

- 2.1 Applications of Venn Diagrams in Problem Sums
- 2.2 Formulas in Set Theory

CHAPTER 3: PROBABILITY OF COMBINED EVENTS

- 3.1 Probability of Single Events
- 3.2 Simple Combined Events, Possibility Diagrams and Tree Diagrams
- 3.3 Addition Law of Probability and Mutually Exclusive Events
- 3.4 Multiplication Law of Probability and Independent Events

CHAPTER 4: STATISTICAL DATA ANALYSIS

- 4.1 Cumulative Frequency Table and Curve
- 4.2 Median, Quartiles, Percentiles, Range and Interquartile Range
- 4.3 Box-and-Whisker Plots
- 4.4 Standard Deviation

CHAPTER 6: FURTHER GEOMETRICAL TRANSFORMATIONS

6.1 Enlargement

6.2 Geometrical Transformation and Matrices

6.3 Transformation Matrix for Enlargement

6.4 Inverse Transformations and Combined Transformations

CHAPTER 7: VECTORS

7.1 Vectors in Two Dimensions

7.2 Addition of Vectors

7.3 Vector Subtraction

7.4 Scalar Multiples of a Vector

7.5 Expression of a Vector in Terms of Two Other Vectors

7.6 Position Vectors

7.7 Applications of Vectors

CHAPTER 8: LOCI

8.1 Introduction to Loci

8.2 Locus Theorems

8.3 Intersection of Loci

8.4 Further Loci

CHAPTER 9: REVISION: NUMBERS AND ALGEBRA

9.1 Numbers and Percentages

9.2 Proportion, Ratio, Rate and Speed

9.3 Algebraic Manipulation and Formulae

9.4 Equations and Inequalities

9.5 Functions and Graphs

9.6 Graphs in Practical Situations

9.7 Sets

9.8 Matrices

- Scattered Diagram (line of best fit) Handouts
- Limits of Accuracy (Addendum) Handouts

PAST PAPERS

ADDITIONAL MATHEMATICS 4037

NEW ADDITIONAL MATHEMATICS

CHAPTER 20: INTEGRATION

- 20.1 Integration as the Reverse Process of Differentiation and Indefinite Integrals
- 20.2 Definite Integrals
- 20.3 Integration of Trigonometric Functions
- 20.4 Integration of Exponential Functions

CHAPTER 21: APPLICATIONS OF INTEGRATION

- 21.1 Area between a Curve and an Axis
- 21.2 Area Bounded by Two Curves

CHAPTER 22: KINEMATICS

- 22.1 Displacement, Velocity and Acceleration
- 22.2 Displacement- Time and Velocity- Time Graphs
- 22.3 Equations of Motion with Constant Acceleration (Optional)

CHAPTER 23: VECTORS

- 23.1 Basic Concepts
- 23.2 Vectors Expressed in Terms of Two Non- Parallel Vectors
- 23.3 Position Vectors
- 23.4 Vectors in the Cartesian Plane

SERIES/ SEQUENCES

A.P/G.P

PAST PAPERS

COMPUTER SCIENCE 2210

CAMBRIDGE IGCSE AND O LEVEL COMPUTER SCIENCE SECTION 1- COMPUTER SYSTEMS

SECTION 2- ALGORITHMS, PROGRAMMING AND LOGIC

CHAPTER 7: ALGORITHM DESIGN AND PROBLEM SOLVING

- 7.1 The program development life cycle
- 7.2 Computer systems, sub-systems and decompositions
- 7.3 Explaining the purpose of an algorithm
- 7.4 Standard methods of solution
- 7.5 Validation and verification
- 7.6 Test data
- 7.7 Trace tables to document dry runs of algorithms
- 7.8 Identifying errors in algorithms
- 7.9 Writing and amending algorithms

CHAPTER 8: PROGRAMMING

- 8.1 Programming concepts
- 8.2 Arrays
- 8.3 File handling

CHAPTER 10: BOOLEAN LOGIC

- 10.1 Standard logic gate symbols
- 10.2 The function of the six logic gates
- 10.3 Logic circuits, logic expressions, truth tables and problem statements

BIOLOGY 5090

CAMBRIDGE IGCSE BIOLOGY COURSEBOOK BY MARY JONES AND GEOFF JONES

CHAPTER 16: REPRODUCTION IN PLANTS

- 16.1 Asexual reproduction
- 16.2 Sexual reproduction
- 16.3 Sexual reproduction in flowering plants
- 16.4 Comparing sexual and asexual reproduction

CHAPTER 17: REPRODUCTION IN HUMANS

- 17.1 Human reproductive organs
- 17.2 Fertilization and development
- 17.3 The menstrual cycle
- 17.4 Birth control
- 17.5 Sexually transmitted diseases

CHAPTER 18: INHERITANCE

- 18.1 Chromosomes
- 18.2 Cell division
- 18.3 Inheritance
- 18.4 DNA & protein synthesis

CHAPTER 19: VARIATION AND NATURAL SELECTION

- 19.1 Variation
- 19.2 Adaptive features
- 19.3 Selection

CHAPTER 20: ORGANISMS AND THEIR ENVIRONMENT

- 20.1 Ecosystem and biodiversity (Ecology)
- 20.2 Energy flow
- 20.3 Nutrient cycle
- 20.4 Population cycle size

CHAPTER 21: BIOTECHNOLOGY

- 21.1 What is biotechnology?
- 21.2 Using yeast
- 21.3 Making use of enzymes
- 21.4 Penicillin
- 21.5 Genetic modification
- 21.6 Using bacteria

CHAPTER 22: HUMANS AND THE ENVIRONMENT

- 22.1 Food production
- 22.2 Habitat destruction
- 22.3 Pollution
- 22.4 Conservation

CHEMISTRY 5070

CHEMISTRY MATTERS 4TH EDITION

CHAPTER 15: ELECTROLYSIS

- 15.1 Introducing Electrolysis
- 15.2 Electrolysis of Molten Ionic Compounds
- 15.3 Electrolysis of Aqueous Solutions of Compounds
- 15.4 Industrial Applications of Electrolysis
- 15.5 Simple Cells

CHAPTER 21: AN INTRODUCTION TO ORGANIC CHEMISTRY

- 21.1 Organic Compounds
- 21.2 Petroleum and Natural Gas
- 21.3 Competing Uses of Petroleum

CHAPTER 22: ALKANES AND ALKENES

- 22.1 Structure of Alkanes
- 22.2 Properties of Alkanes
- 22.3 Structure of Alkenes
- 22.4 Properties of Alkenes
- 22.5 Producing Alkenes by Cracking
- 22.6 Comparing Alkanes and Alkenes
- 22.7 Fats and Oils

CHAPTER 23: ALCOHOLS AND CARBOXYLIC ACIDS

- 23.1 Structure of Alcohols
- 23.2 Properties of Alcohols
- 23.3 Producing Ethanol
- 23.4 Uses of Ethanol
- 23.5 Structure of Carboxylic Acids
- 23.6 Properties of Carboxylic Acids
- 23.7 Producing Ethanoic Acid
- 23.8 Esters

CHAPTER 24: MACROMOLECULES

- 24.1 Macromolecules
- 24.2 Addition Polymerisation
- 24.3 Condensation Polymerisation
- 24.4 Plastics and Pollution

PHYSICS 5054

PHYSICS MATTERS 4TH EDITION

THEME 4 ELECTRICITY AND MAGNETISM

- Chapter 17: Current Electricity
 - 17.1 Electric Current
 - 17.2 Electromotive Force and Potential Difference
 - 17.3 Resistance
 - 17.4 Resistivity
- Chapter 18: D.C Circuits
 - 18.1 Series Circuits
 - 18.2 Parallel Circuits
 - 18.3 Resistors in Series and Parallel
 - 18.4 Potential Dividers

- Chapter 19: Practical Electricity
 - 19.1 Uses of Electricity
 - 19.2 Measuring Electrical Energy
 - 19.3 Sources of Electrical Energy
 - 19.4 Dangers of Electricity
 - 19.5 Safety Features in Home Circuits
- Chapter 20: Magnetism
 - 20.1 Magnets and Magnetic Materials
 - 20.2 Magnetic Induction
 - 20.3 Magnetisation and Demagnetisation
 - 20.4 Magnetic Fields
 - 20.5 Temporary and Permanent Magnets
- Chapter 21: Electromagnetism
 - 21.1 Magnetic Effect of a Current
 - 21.2 The Motor Effect- Force due to Magnetic Fields
 - 21.3 Turning Effect on a Current- Carrying Coil in a Magnetic Field
- Chapter 22: Electromagnetic Induction
 - 22.1 Electromagnetic Induction
 - 22.2 Alternating Current Generators
 - 22.3 Transformers

RADIO ACTIVITY (not from book)

ELECTRONICS (not from book)

SPACE PHYSICS (not from book)

ACCOUNTING 7707

IGCSE ACCOUNTING by Catherine Coucom

CHAPTER 14: Bank Reconciliation Statements

CHAPTER 15: Journal Entries and Correction of Errors

CHAPTER 18: Accounts of Clubs and Societies

CHAPTER 19: Partnership Accounts

CHAPTER 21: Limited Company Accounts

CHAPTER 22: Analysis and Interpretation

BUSINESS STUDIES 7115

**CAMBRIDGE IGCSE AND O LEVEL BUSINESS STUDIES (FIFTH EDITION-
KAREN BORRINGTON & PETER STIMPSON)**

SECTION 4: OPERATIONS MANAGEMENT

- Production of goods and services
- Costs, scale of production and break-even analysis
- Achieving quality production
- Location decisions

SECTION 5: FINANCIAL INFORMATION AND FINANCIAL DECISIONS

- Business finance: needs and sources
- Cash flow forecasting and working capital
- Income statements
- Statement of financial position
- Analysis of accounts

SECTION 6: EXTERNAL INFLUENCES ON BUSINESS ISSUES

- Economic issues
- Environmental and ethical issues
- Business and the international economy

ECONOMICS 2281

ECONOMICS by Susan Grant

CHAPTER 2: THE ALLOCATION OF RESOURCES

2.3 Demand (Revision)

2.4 Supply (Revision)

2.5 Price determination (Revision)

2.6 Price changes (Revision)

CHAPTER 4: GOVERNMENT AND THE MACROECONOMY (REVISION)

4.1 The role of government

- The role of government

4.2 The macroeconomic aims of government

- The macroeconomic aims of government
- Possible conflicts between macroeconomic aims

4.3 Fiscal policy

- Definition of the budget
- Reasons for government spending
- Reasons for taxation
- Principles of taxation
- Classification of taxes
- Impact of taxation
- Definition of fiscal policy
- Fiscal policy measures
- Effects of fiscal policy on government macroeconomic aims

4.4 Monetary policy

- Definition of money supply and monetary policy
- Monetary policy measures
- Effects of monetary policy on government macroeconomic aims

4.5 Supply-side policy

- Definition of supply-side policy
- Supply-side policy measures
- Effects of supply-side policy measures on government macroeconomic aims

4.6 Economic growth

- Measurement of economic growth
- Definition of economic growth
- Causes of economic growth
- Causes and consequences of recession
- Consequences of economic growth
- Policies to promote economic growth

4.7 Employment and unemployment

- Definition of employment, unemployment and full employment
- Changing patterns and level of employment
- Measurement of unemployment
- Causes/ types of unemployment
- Consequences of unemployment
- Policies to reduce unemployment

4.8 Inflation and deflation

- Definition of inflation and deflation
- Measurement of inflation and deflation
- Causes of inflation and deflation
- Consequences of inflation and deflation
- Policies to control inflation and deflation

CHAPTER 5:

5.1 Living Standards

5.2 Poverty

5.3 Population

5.4 Differences in Economic Development Between Countries

CHAPTER 6: INTERNATIONAL TRADE AND SPECIALIZATION

6.1 International specialization

- Definition of globalization
- Specialization at a national level
- Advantages and disadvantages of specialization at a national level

6.2 Globalization, free trade and protection

- Role of multinational companies (MNCs)
- The benefits of free trade
- Methods of protection
- Reasons for protection
- Consequences of protection

6.3 Foreign exchange rates

- Definition of foreign exchange rate
- Determination of foreign exchange rate in foreign exchange market
- Causes of foreign exchange rate fluctuations
- Consequences of foreign exchange rate fluctuations
- Floating and fixed foreign exchange rates

6.4 Current account of balance of payments

- Structure
- Causes of current account deficit and surplus
- Consequences of current account deficit and surplus
- Policies to achieve balance of payments stability

SOCIOLOGY 2251

CAMBRIDGE IGCSE SOCIOLOGY COURSEBOOK- JONATHAN BLUNDELL

UNIT 1: THEORY AND METHODS

- How do different sociologists interpret society?
- How do sociologists study society?
- What types of information and data do sociologists use?

UNIT 2: CULTURE, IDENTITY AND SOCIALISATION

- What is the relationship between the individual and society?
- How do we learn to be human?

ART AND DESIGN 6090

ALL STUDENTS TAKE TWO COMPONENTS

COMPONENT 1: COURSEWORK

COMPONENT 2: EXTERNALLY SET ASSIGNMENT (compulsory)

COMPONENT 1:

- a) Portfolio
- b) Final outcome

- Set personal goals and targets
- Working on area of interest, exploration of ideas leading to a resolved final outcome.
- Visits to local galleries, tourist attractions or contact with visiting speakers, local artists, craftsmen.
- The teacher provides a list of topics to the students for coursework. The student then chooses a topic and his/her portfolio is based on it.
- The portfolio should include first hand studies from primary sources, photographs, relevant sketches and written analysis.
- Make reference to contextual source where appropriate eg artists, key art movements, historical events or local and national art & craft/ design.
- Select, review and refine ideas as work progresses to plan and produce a personal and coherent final outcome.
- Portfolio should contain work which shows the research, exploration, development and evaluation relevant to final outcome.
- The portfolio can be up to four sheets of A2. Students can use both sides of the paper.

FINAL OUTCOME

The final outcome should be a resolved piece of work that demonstrates breadth and depth of exploration and inquiry.

TOPICS FOR COURSEWORK:

- Growing old
- Secretive
- Waste
- Spirals, shavings and springs
- The popular choice
- Sunglasses
- Creams, gels and pastes
- Tubs, tubes or tins
- Indoor games
- Sports goods
- Snacks
- Transparent
- Men at work
- Tangled
- Islamic art
- Flowers
- Jumbled
- Interacting
- Draped
- Abused
- Preparing a meal
- Shoes
- Sliced or diced
- Pickles in a jar
- Turning point
- Communication
- Stitched together
- Addicted
- Light and shade
- Artisan at work
- Tyre shop
- At the workshop
- Spirituality
- Welding
- Companions
- The bicycle
- The kitchen sink
- Bangles, beads and buttons
- Around a table
- Windswept
- At the Race

- Lost
- Me, myself
- Empathy
- Foreshortening
- Stones and Gems
- Patterns of Nature
- Food Street
- Mocchi (shoemaker)
- Entertainers
- Memories

GLOBAL PERSPECTIVES 2069

**CAMBRIDGE IGCSE AND O LEVEL GLOBAL PERSPECTIVES COURSEBOOK
(KEELY LAYCOCK)**

COMMUNICATION SKILLS

- Reading
- Writing
- Listening
- Speaking

INDIVIDUAL REPORT

- Biodiversity and Ecosystem Loss
- Family
- Changing Communities
- Digital World
- Trade and Aid

TEAM PROJECT

- Human Rights
- Language and Communication
- Poverty and Inequality
- Disease and Health