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## 'O' Level Year 2013

This booklet presents an outline of the syllabus each student is expected to follow in Class XI during the academic year August 2012 - May 2013. This is just an overview and the subject teachers will provide specifics from time to time.

The students of Class XI have made an important choice pertaining to the subjects they will pursue at the General Certificate of Education Ordinary Level Examination. Universities in Pakistan and abroad recognize the GCE 'O' Level for its high standards and for the skills and abilities it develops in students. The British Council conducts this examination in Pakistan.

- There will be a variety of assessments for each subject area.
- Examinations will normally be held in November / December and April / May.
- These examinations will be based in all subjects.
- The subject teachers will give details of examination content to the students.
- A detailed exam syllabus will be sent home prior to the examinations.
- The grading varies from one subject to another, accordingly.
- The Grading Scheme followed at Links is reproduced below.

<b>GRADE</b>	<b>HUMANITIES</b>	<b>SCIENCE</b>	<b>OVERALL</b>
<b>A*</b>	<b>90%+</b>	<b>90%+</b>	<b>90%+</b>
<b>A</b>	<b>80%+</b>	<b>80%+</b>	<b>80%+</b>
<b>B</b>	<b>70%+</b>	<b>70%+</b>	<b>70%+</b>
<b>C</b>	<b>60%+</b>	<b>60%+</b>	<b>60%+</b>
<b>D</b>	<b>50%+</b>	<b>50%+</b>	<b>50%+</b>
<b>E</b>	<b>40%+</b>	<b>40%+</b>	<b>40%+</b>
<b>U (Ungraded)</b>	<b>below 40%</b>	<b>below 40%</b>	<b>below 40%</b>

# ENGLISH LANGUAGE (CODE-1123)

## AIMS

- To develop students' oral and written skills.
- To encourage enjoyment and appreciation of the Language.

## BOOKS

1. 'O' Level English
2. General Certificate English
3. Past Papers

*by Helen Toner and John Reynolds*

*by Alan Etherton*

## REFERENCE BOOKS

1. English Alive

*by John Seely (book 1 and 2)*

## CONTENT

### FIRST TERM

## CREATIVE WRITING

- 1- Narrative Essays
- 2- Recount Essays
- 3- Discursive Essays

## DIRECTED WRITING

1. Report Writing
  - a. Eye Witness Accounts
  - b. News paper Reports
  - c. Proposals (Recommendations and Definite plans)
2. Summary Writing

## COMPREHENSION

1. Literal
2. Inferential
3. General knowledge

# ENGLISH LANGUAGE (CODE-1123)

## SECOND TERM

### CREATIVE WRITING

- 1- Descriptive Essays
- 2- Argumentative Essays
- 3- Narrative Essays (revision)
- 4- Recount Essays (revision)

### DIRECTED WRITING

1. Formal Letters
  - a. Letters of request
  - b. Letters of apology
  - c. Letters of Complaint
  - d. Letters of Information/opinion
  - e. Other letters
    - i. Letters of invitation
    - ii. Letters giving advice
    - iii. Letters of gratitude
2. Informal Letters (Revision)
3. Speech Writing
4. Information Sheet/ Brochures

### COMPREHENSION

1. Literal
2. Inferential
3. General knowledge

#### ASSESSMENT

• Tests	40%
• Quizzes	40%
• Assignments	15%
• Homework	5%
<b>Term</b>	<b>100%</b>
<b>Examination</b>	<b>100%</b>

# LITERATURE IN ENGLISH (CODE 2010)

## AIMS

- To help students approach Literature with a sense of enjoyment and enthusiasm.
- To appreciate Literature as an expression of ideas and themes which extend beyond a particular society and time.
- To develop an awareness of Literature as a reflection of life.

## BOOKS

1. **Julius Caesar** *by William Shakespeare*
2. **Stories of Ourselves** *U.C.I.E. Anthology of Stories in English*
3. **Songs of Ourselves** *U.C.I.E. Anthology of Poetry in English*

## CONTENT Revision

### FIRST TERM

#### PROSE:

*The Son's Veto* by Thomas Hardy  
*Her First Ball* by Katherine Mansfield  
*The Fly In The Ointment* by V. S. Pritchett  
*The Custody Of The Pumpkin* by P. G. Wodehouse  
*The Destroyers* by Graham Greene  
*A Horse And Two Goats* by R. K. Narayan  
*The Rain Horse* by Ted Hughes  
*My Greatest Ambition* by Morris Lurie  
*Sandpiper* by Ahdaf Soueif  
*At Hiruhamara* by Penelope Fitzgerald

- **Narrative Technique**
- **Point of View**
- **Themes**
- **Characterisation**
- **Setting**
- **Tone**
- **Plot**
- **Sequencing**
- **Historical Context**
- **Compare and Contrast**
- **Empathy**

#### POETRY:

*A Different History* by Sujata Bhatt  
*Pied Beauty* by Gerard Manley Hopkins  
*Continuum* by Allen Curnow  
*Horses* by Edwin Muir  
*Hunting Snake* by Judith Wright  
*Pike* by Ted Hughes  
*A Birthday* by Christina Rossetti

# LITERATURE IN ENGLISH (CODE-2010)

## SECOND TERM

### **DRAMA:** *Julius Caesar* by *William Shakespeare ( Revision )*

- Plot / Sub Plot
- Themes
- Characterisation
- Setting
- Dramatic Devices (Irony, foreshadowing, dramatic movement, climax, and impact on audience.)
- Empathy

### **POETRY:**

*The Woodspurge* by *Dante Gabriel Rossetti*

*The Cockroach* by *Kevin Halligan*

*The City Planners* by *Margaret Atwood*

*The Planners* by *Boey Kim Cheng*

*Summer Farm* by *Norman Maccaig*

*Where I Come From* by *Elizabeth Brewster*

*Sonnet Composed Upon Westminster Bridge* by *William Wordsworth*

- Main Message
- Rhyme, Rhythm and Structure
- Theme
- Symbols
- Characterisation
- Poetic Devices and Their Effects & Analysis Versus Paraphrasing

# MATHEMATICS (CODE-4024)

## AIMS

- To increase students' intellectual curiosity, develop mathematical language as a means of communication and investigation and explore mathematical ways of reasoning.
- To acquire and apply skills and knowledge related to numbers, measurements and space in mathematical situations of life.
- To appreciate the pattern and structure in Mathematics and derive satisfaction, enjoyment and confidence from understanding concepts and mastering skills.
- To acquire a foundation appropriate to a further study of Mathematics and the skills and knowledge pertinent to other disciplines.

## BOOKS

1. **New Syllabus D Mathematics Book 3** *by Lee Peng Yee*
2. **New Syllabus D Mathematics Book 4** *by Lee Peng Yee*

## CONTENT

### FIRST TERM

- 1- More on Probability
- 2- Loci
- 3- Vectors in Two Dimensions
- 4- Geometric Transformations
- 5- Further Geometrical Transformation
- 6- Sets

### SECOND TERM

- 1- Kinematics
- 2- Arithmetic
- 3- Algebra
- 4- Mensuration
- 5- Geometry
- 6- Sets and Venn Diagrams
- 7- Probability
- 8- Graphs
- 9- Statistics
- 10- Matrices

### ASSESSMENT

- |               |     |
|---------------|-----|
| • Tests       | 40% |
| • Quizzes     | 40% |
| • Assignments | 15% |
| • Homework    | 5%  |

- 11- Vectors
- 12- Trigonometry & Bearing
- 13- Number Sequencing
- 14- Problem Solving

Term	100%
Examination	100%

## URDU (CODE-3248)

### AIMS

- To develop students' oral and written skills.
- To encourage the enjoyment and appreciation of the Language.
- To see Literature as an expression of ideas and themes which extend beyond a particular society and time.

### BOOK

1. 'O' Level Urdu *by Batool Ali*

### CONTENT

#### FIRST AND SECOND TERM

##### 1- Grammar:

- Cloze Passage
- Sentence Transformation
- Idioms and Sentences
- Translation

##### 2- Composition:

- Essay Writing
- Report Writing
- Letter Writing (Formal & Informal)
- Dialogue Writing
- Summary
- Comprehension
- Speech

#### ASSESSMENT

- Tests 40%



# BIOLOGY (CODE-5090)

## AIMS

- To deepen the understanding of key scientific ideas and concepts.
- To develop skills and attitudes necessary for undertaking investigations.
- To appreciate the applications and effects of Science on society.
- To develop an understanding of the nature of Science and how it has developed.
- To build on their scientific knowledge and understanding from Key Stage 3 and make connections between different areas of Science.
- To use scientific ideas and models to explain phenomena and events.
- To understand a range of familiar applications of Science.
- To carry out investigations of different types, on their own and in groups, making use of reference sources and evaluating their work.

## BOOK

1. **GCE O Level Biology Matters** *by Lam Peng Kwan & Eric Y. K. Lam*

## CONTENT

### FIRST TERM

- 1- Development of Organisms and Continuity of life
- 2- Ecology
- 3- Inheritance
- 4- Drugs

### SECOND TERM

- 1- Microorganisms and Biotechnology

### ASSESSMENT

- |               |            |
|---------------|------------|
| • Tests       | <b>40%</b> |
| • Quizzes     | <b>30%</b> |
| • Assignments | <b>15%</b> |
| • Practical   | <b>15%</b> |

# CHEMISTRY (CODE-5070)

## AIMS

- To deepen the understanding of key scientific ideas and concepts.
- To develop skills and attitudes necessary for undertaking investigations.
- To appreciate the applications and effects of Science on society.
- To develop an understanding of the nature of Science and how it has developed.
- To build on their scientific knowledge and understanding from Key Stage 3 and make connections between different areas of Science.
- To use scientific ideas and models to explain phenomena and events.
- To understand a range of familiar applications of Science.
- To carry out investigations of different types, on their own and in groups, making use of reference sources and evaluating their work.

## BOOK

1. **GCE O Level Chemistry Matters** by *T. Y. Toon, C. L. Kwoon, J. Sadler & E. Clare*

## CONTENT

### FIRST TERM

- 1- Electrolysis
- 2- Ammonia and its Uses
- 3- Metals and Reactivity Series
- 4- Extraction of Metals
- 5- Organic Chemistry

### SECOND TERM

- 1- Organic Chemistry

### ASSESSMENT

• Tests	<b>40%</b>
• Quizzes	<b>30%</b>
• Assignments	<b>15%</b>
• Practicals	<b>10%</b>
• Homework	<b>5%</b>
<b>Term</b>	<b>100%</b>
<b>Examination</b>	<b>100%</b>

# PHYSICS (CODE-5054)

## AIMS

- To deepen the understanding of key scientific ideas and concepts.
- To develop skills and attitudes necessary for undertaking investigations.
- To appreciate the applications and effects of Science on society.
- To develop an understanding of the nature of Science and how it has developed.
- To build on their scientific knowledge and understanding from Key Stage 3 and make connections between different areas of Science.
- To use scientific ideas and models to explain phenomena and events.
- To understand a range of familiar applications of Science.
- To carry out investigations of different types, on their own and in groups, making use of reference sources and evaluating their work.

## BOOK

1. **GCE O Level Physics Matters** *by Charles Chew and Chow Siew Foong*

## CONTENT

### FIRST TERM

- 1- Static Electricity
- 2- Current Electricity
- 3- Magnetism
- 4- Electromagnetism
- 5- Nuclear Physics

### SECOND TERM

- 1- Practicals

### ASSESSMENT

• Tests	40%
• Quizzes	30%
• Assignments	15%
• Practicals	10%
• Homework	5%
<b>Term</b>	<b>100%</b>
<b>Examination</b>	<b>100%</b>

# **HISTORY: WORLD AFFAIRS, 1917 – 1991 (CODE-2158)**

## **AIMS**

- To stimulate interest in and enthusiasm for the study of the past.
- To promote the acquisition of knowledge and understanding of human activity in the past, linking it, as appropriate, with the present.
- To help pupils towards an understanding of the development over time of social and cultural values.
- To promote the understanding of basic historical concepts, such as cause and consequence, continuity and change.
- To encourage the development of literacy and essential study skills.
- To provide a sound basis for further study and the pursuit of personal interest.

## **BOOK**

### **1. Modern World History**

*by Norman Lowe*

## **CONTENT**

### **FIRST TERM**

#### **International Relations and Developments**

- 1- The 1919-20 peace settlement, International Relations in the 1920's
- 2- The structure and work of the league of Nations
- 3- The causes, course and consequences of the Second World War
- 4- The structure and work of the United Nations Organization
- 5- The development of the Cold War; coexistence & détente
- 6- Military conflict in Vietnam & Korea

### **SECOND TERM**

#### **Western Europe**

- 1- The Internal history and foreign relations of Italy and Germany between the wars.
- 2- Salient features in the internal history and foreign relations of Britain during the twentieth century
- 3- The causes and course of the Spanish Civil War
- 4- The Second World War in Western Europe and the Mediterranean
- 5- The internal history and foreign relations of France & Germany since the Second World War
- 6- The development of closer economic & political union in Western Europe since the Second World War

#### **ASSESSMENT**

- Tests **40%**
- Quizzes **40%**
- Assignments **15%**
- Homework **5%**

**Term** **100%**  
**Examination** **100%**

# PRINCIPLES OF ACCOUNTS (CODE-7110)

## AIMS

- Develop an understanding of the role of accounting in providing an information system for monitoring and decision-making.
- Develop an understanding of accounting concepts, principles, procedures and terminology.
- Develop skills in preparing and interpreting accounting information.
- Develop knowledge and understanding of the aims and activities of business and non-trading organisations, their accounting implications and the accounting techniques and procedures appropriate to them.
- Develop skills of numeracy, literacy, communication and enquiry.
- Encourage attitudes of accuracy, orderliness, logical thought and an appreciation of professional ethics.

## BOOK

### 1. Business Accounting Volume 1

*by Frank Wood and Alan Sangster*

## CONTENT

### FIRST TERM

- 1- Manufacturing Accounts
- 2- Correction of Errors and Suspense Account
- 3- Accounting Ratios
- 4- Single Entry and Incomplete Records
- 5- Accounts of Non-Profit Organizations
- 6- Accounts of Partnership
- 7- Accounts of Limited Liability Companies

### SECOND TERM

- 1- Bank Reconciliation Statement
- 2- Stock Valuation
- 3- Payroll Accounting
- 4- Accounting Concepts and Theory

### ASSESSMENT

- Tests 40%
- Quizzes 40%
- Assignments 15%
- Homework 5%

**Term** 100%

**Examination** 100%

# ECONOMICS (CODE-2281)

## AIMS

- Develop candidates' knowledge and understanding of economic terminology and principles, and elementary economic theory.
- Develop candidates' basic economic numeracy and literacy and their ability to handle simple data including graphs and diagrams.
- Develop candidates' ability to use the tools of economic analysis in particular situations; show candidates how to identify and discriminate between differing sources of information and how to distinguish between facts and value judgments in economic issues.
- Develop candidates' ability to use economic skills (with reference to individuals, groups and organisations) to understand better the world in which they live.
- Enable candidates to participate more fully in decision-making processes as both consumers and producers and as citizens of the local, national and international community.
- Develop candidates' understanding of the economies of developed and developing nations and of the relationships between them; and to develop their appreciation of these relationships from the perspective of both developed and developing nations.

## BOOKS

### 1- Economics: A Complete Course

Reference: IGCSE And O Level Economics

*by Dan Moynihan and Brian Titley*

*by Susan Grant*

## CONTENT

### FIRST TERM

- 1- How Prices are Determined
- 2- Social Costs and Benefits
- 3- How Firms Behave and the Interests of Consumers
- 4- The Labour Market
- 5- Macro Economic Problems (1): Inflation, Unemployment, and Growth

### SECOND TERM

- 1- Macro Economic Problems (2): International Trade
- 2- Controlling the Macro Economy
- 3- How is Government Financed
- 4- The Role of Money
- 5- Population

#### ASSESSMENT

- Tests **40%**
- Quizzes **40%**
- Assignments **15%**
- Homework **5%**

**Term** **100%**  
**Examination** **100%**

# **BUSINESS STUDIES (CODE-7115)**

## **AIMS**

- Make effective use of relevant terminology, concepts and methods and recognise the strengths and limitations of the ideas used.
- Apply their knowledge and critical understanding to current issues and problems in a wide range of appropriate contexts.
- Distinguish between facts and opinions, and evaluate qualitative and quantitative data in order to help build arguments and make informed judgments.
- Appreciate the perspectives of a range of stakeholders in relation to the environment, individuals, society, government and enterprise.
- Develop knowledge and understanding of the major groups and organisations within and outside business and consider ways in which they are able to influence objectives, decisions and activities.
- Develop knowledge and understanding of how the main types of businesses and commercial institutions are organised, financed and operated and how their relations with other organisations, consumers, employees, owners and society are regulated.
- Develop skills of numeracy, literacy, enquiry, selection and employment of relevant sources of information, presentation and interpretation.
- Develop an awareness of the nature and significance of innovation and change within the context of business activities.

## **BOOK**

1. **IGCSE: Business Studies** *by Karen Borrington and Peter Stimpson*

## **CONTENT**

### **FIRST TERM**

- 1- **Factors Affecting Production**
- 2- **Factors Affecting Location**
- 3- **Business Costs and Revenue**
- 4- **Business Accounting**
- 5- **Cash Flow Planning**
- 6- **Financing Business Activity**

### **SECOND TERM**

- 1- **Government and Economic Influences on Business**
- 2- **Other External Influences on Business**
- 3- **Business in the International Community**

### **ASSESSMENT**

- Tests **40%**
- Quizzes **40%**
- Assignments **15%**
- Homework **5%**

<b>Term</b>	<b>100%</b>
<b>Examination</b>	<b>100%</b>

# ADDITIONAL MATHEMATICS (CODE-4037)

## AIMS

- Consolidate and extend their elementary mathematical skills, and use these in the context of more advanced techniques
- Further develop their knowledge of mathematical concepts and principles, and use this knowledge for problem solving
- Appreciate the interconnectedness of mathematical knowledge
- Acquire a suitable foundation in mathematics for further study in the subject or in mathematics related subjects
- Devise mathematical arguments and use and present them precisely and logically
- Integrate information technology (IT) to enhance the mathematical experience
- Develop the confidence to apply their mathematical skills and knowledge in appropriate situations
- Develop creativity and perseverance in the approach to problem solving
- Derive enjoyment and satisfaction from engaging in mathematical pursuits, and gain an appreciation of the beauty, power and usefulness of Mathematics.

## BOOK

1. **New Additional Mathematics** *by Ho Soo Thong MSc, Dip. Ed. & Khor Nyak Hiong BSc, Dip. Ed.*

## CONTENT

### FIRST TERM

- 1- Circular Measures
- 2- Permutations and Combinations
- 3- Simple Trigonometric Identities and Equations
- 4- Trigonometric Functions
- 5- Binomial Theorem
- 6- Differentiation and its Techniques
- 7- Rates of Change
- 8- Higher Derivatives and Applications
- 9- Derivatives of Trigonometric Functions
- 10- Exponential and Logarithmic Functions

### SECOND TERM

- 1- Vectors
- 2- Relative Velocity
- 3- Integration
- 4- Applications of Integration
- 5- Kinematics

### ASSESSMENT

• Tests	40%
• Quizzes	40%
• Assignments	15%
• Homework	5%
<b>Term</b>	<b>100%</b>
<b>Examination</b>	<b>100%</b>



# SOCIOLOGY (CODE-2251)

## AIMS

- Promote candidates' awareness, knowledge and understanding of human societies.
- Develop candidates' understanding of sociological method, including the collection, analysis and interpretation of data.
- Provide an introduction to sociological concepts, theories and research findings.
- Stimulate awareness of the range and limitations of sociological theory and research.
- Promote candidates' understanding of continuity and change in social life.
- Encourage a critical awareness of social, economic and political processes, and their effects.
- Develop the capacity for the critical evaluation of different forms of information and evidence.
- Promote an appreciation and understanding of individual, social and cultural diversity.
- Enhance candidates' ability to apply sociological knowledge and understanding to their own lives and participation within society.

## BOOKS

1. **Active Sociology for GCSE** *by Jonathan Blundell*
2. **An Introduction to Sociology** *by Ken Browne*
3. **The Complete A-Z Sociology Handbook** *by Tony Lawson and Joan Garrod*

## CONTENT

### FIRST TERM

1. **Research Methods**
2. **Culture and Socialisation**
3. **Social Stratification**
4. **Power and Authority**
5. **Family**
6. **Education**

### SECOND TERM

1. **Crime, Deviance and Social Control**
2. **Mass Media**

### ASSESSMENT

• Tests	40%
• Quizzes	40%
• Assignments	15%
• Homework	5%
<b>Term</b>	<b>100%</b>
<b>Examination</b>	<b>100%</b>

# ART (CODE-6010)

## AIMS

- Perceive understand and express concepts and feelings.
- Record from direct observation and personal experience.
- Communicate by using appropriate materials and techniques in a disciplined way.

## WORKING MEDIUMS:

Pencils, Water Colour Pencils, Charcoal Pencils, Willow Charcoal Sticks, Compressed Charcoal Sticks, Oil Pastels, Chalk Pastels, Water Colour Paints, Acrylic Paints, Poster Paints, Ink, Emulsion, Reed Pens, Drawing Pens, Pointers, Felt Tip Pens, and Markers.

## CONTENT

### FIRST TERM

- 1- **DRAWING: Rendering Techniques in Chalk Pastels, Oil Pastels and Conte Crayons**
  - Complex Still Life
  - Detailed Landscape
  - Detailed Outdoor Scene
  - Object Studies
  - Conceptual Portfolio
- 2- **PAINTING: Techniques- Acrylic Texturing, Poster Painting for Complex Scenes, and Detailed Watercolour Studies**
  - Character Study
  - Self Portrait
  - Reproduction of a Painting
- 3- **COMPOSITION: Collect and Compile references for your Composition drawing / painting (from your imagination).**

### SECOND TERM

- 1- **DRAWING: Techniques in Ink, Emulsion and Mixed Media**
  - Finalizing Conceptual Portfolio
- 2- **PAINTING: Combined Painting and Drawing Techniques**
  - Finalizing Conceptual Portfolio
- 3- **COMPOSITION: Collect and Compile references for your Composition drawing / painting (from your imagination).**

# Community Services at Links

By creating awareness and providing opportunities to experience community service at an early age, we hope our students will recognize the significance of charity work and be alert to helping the world and those less fortunate around them. Promoting this cause and serving our community positively also addresses many grass root issues that fall through the cracks of government agencies.

## **Work and Life Experience**

Additionally, students who participate in community service activities, which are related to their future career goals, can gain advantage over the competition and their college planning process by acquiring real-world experience in their chosen field. Volunteer work can also improve students' social skills and help prepare them for the many challenges life has to offer.

## **A Broader Worldview**

Whilst doing community service, students meet people from all walks of life and will be exposed to various experiences. Students may witness scenarios that they would have never otherwise encountered in their every day lives and these experiences can shape the outlook and the direction of life. Community service can give a sense of purpose, achievement and direction.

## **School Requirements**

- At Links, we have introduced a compulsory number of community service hours, which all students from Class 9 onwards must fulfill. While this requirement is not graded, students must complete a specified number of community service hours (15 hours per term) in order to be promoted to the next class.
- There are a number of approved NGO's for example, WWF, TCF, HOPE, Special Olympics Pakistan, School for the Deaf etc.
- Any community service that students sign up for must first be approved by the school administration. Students must only work in recognized organizations that are able to provide written recommendations and verification stating the amount of hours served.
- The written verification of a student's community service hours must be handed in to the school office and a record for each student will be maintained accordingly.
- It is recommended that students carefully plan and spread their Community Service hours through the term in order to avoid unnecessary pressure towards the end of the term.