

## **LC Accounting H Course 1**

- Revaluation of Fixed Assets (60 Marks).
- Control Accounts (Debtors & Creditors – 60 Marks).
- Club Accounts (60 & 100 Marks).

## **LC Accounting H Course 2**

- Incomplete Records (Type B – 100 Marks).
- Ratios (100 Marks).
- Tabular (60 Marks).

## **LC Accounting H Course 3**

- Budgets (80 Marks).
  - Cash Production.
  - Flexible.
  - Mixed.
- Accounting Theory Questions/Notes.

## LC Applied Maths H Course 1

### **Chapter 2:**

- Uniform Acceleration: Solved Exam Problems (These techniques are vital to the rest of the examination).

### **Chapter 3:**

- Projectiles: Both Horizontal & Vertical Displacements.

### **Chapter 4:**

- Connected Particles: This is basically an application of Newton's Laws. Overview of style of 3 (With Sub Styles) Main Broad Question Types posed over the last 40 years.

### **Chapter 6:**

- Application of Newton's Laws from Question 4. Overview of 5 LCH Main Question Types posed over the last 40 years.

## LC Applied Maths H Course 2

From Murphy:

- *Chapter 9:* Differentiation & Integration.
- *Chapter 10:* Differential Equations.

## **LC Ag Science H Course 1**

- Crop Management.
- Sheep.
- Dairy.
- Kale.
- Project Information.

## **LC Biology H Course 1**

- Digestive System.
- Respirations.
- Enzymes.
- Food.

## **LC Biology H Course 2**

- Variation & Evolution.
- Genetic Engineering.
- Genetic Crosses.
- DNA & RNA.

## **LC Biology H Course 3**

- Reproductive System.
- Circulatory System.
- Breathing System.
- Nervous System.

## **LC Biology H Course 4**

- Defence System.
- Cell Division.
- Bacteria.
- Viruses.
- Fungi.

## **LC Biology H Course 5**

- Plant Reproduction.
- Plant Transport.
- Plant Structure.
- Plant Responses.

## LC Business H Course 1

### ***ABQ Focused:***

- Unit 2, 3 & 4.
- How to answer the ABQ & Theory from these Units.

## Computer Science H Course 1

We will cover the Project Topic:

- **ALT 1 & ALT 2**
  - Databases & Analytics – These are the Applied Learning Tasks for the Project.

## Computer Science H Course 2

As Python is the only language being examined on the actual test in March 2025.  
We will review all Chapters 1 & 9 from the textbook –

*\*\*Will be Furnished with Notes from Dr Barry Ryan.*

## **LC Chemistry H Course 1**

- Chemical Equilibrium & Le Chatelier's Principle.
- Rates of Reaction.

## **LC Chemistry H Course 2**

- Practical Organic Chemistry Experiments.

## **LC Chemistry H Course 3**

- Generic Titration Q1 on Acid – Base Titrations.
- Acid/Bases/pH/Indicators.
- pH Titres.

## **LC Chemistry H Course 4**

- Fuels/Octane Numbers – Q6.
- Thermochemistry.
- Radioactivity.

## LC Chemistry H Course 5

- Redox Titration's in Q1.
- Oxidation & Reduction.
- Water Analysis.

## LC Chemistry H Course 6

- Organic Chemistry.
- Ionic Addition/Free Radical Substitution Mechanism.
- Reactions of Alkanes/Alkenes/Alkynes/Aldehydes/Ketones/Carboxylic Acids

## LC Economics H Course 1

### **Microeconomics**

In Light of the new Syllabus introduced in 2021 & Sample Papers published, emphasis is on problem solving.

### ***Course Content:***

- Fundamentals of Economics.
- Supply, Demand, Equilibrium in Markets.
- Market Failure.
- Factors of Production.
- Cost Structure of the Firm.
- Firm Structures.

*We will illustrate such with new syllabus emphasis.*

## LC Economics H Course 2

### **Macroeconomics**

In Light of the new Syllabus introduced in 2021 & Sample Papers published, emphasis is on problem solving.

#### ***Course Content:***

- National Income & Econometric Measures of such.
- Unemployment & Inflation.
- International Trade.
- National Budget & National Debt.
- History of Economic Thought.

*We will illustrate such with new syllabus emphasis.*

## LC English H Course 1

### ***Paper 1:***

- Comprehending Question A.
- Writing about Visual Texts.
- Comprehending Question B.
- Composing.
- Unseen Poetry.

### ***Paper 2:***

- Unseen Poetry.



## LC English H Course 2

### **King Lear:**

- Comprehensive Analysis of the Plot.
- Detailed Description of the Main Characters.
- Analysis of Character Relationships.
- Overview of the Main Themes in the Drama.

## LC English H Course 3

### **Prescribed Poetry**

- Theme, Language, Style of Each Poem & How to Write an Examination Answer.
- **Eavan Boland -**
  - The War Horse.
  - Child of Our Time.
  - The Famine Road.
  - The Black Lace Fan My Mother Gave Me.
  - The Shadow Doll.
  - The Pomegranate.
- **Patrick Kavanagh.**
  - Inniskeen Road.
  - July Evening.
  - Shancoduff.
  - On Ranglan Road.
  - A Christmas Childhood.
  - Advent.

- Canal Bank Walk.
- Lines Written on a Seat on the Grand Canal Dublin.

## LC English H Course 4

### **Paper 1 – Composition:**

- This Question is 25% of your full exam.
- Discussions on Personal Essays, Short Stories & Opinion Pieces.
- Sample Answers & Exam Techniques Discussed.

### **Paper 2 – Poetry of Sylvia Plath:**

- Review of Poems with Notes Concerning Themes, Imagery & Language.
- Sample Responses & Exam Techniques Discussed.

### **Paper 2 – Poetry of Emily Dickinson:**

- Review of Poems with Notes Concerning Themes, Imagery & Language.
- Sample Responses & Exam Techniques Discussed.

## LC English H Course 5

### **Paper 1:**

- Question B.
- Functional Writing.

### **Comparative Study**

- Overview.

### **Prescribed Poetry**

- Eavan Boland.

## LC French H

- Layout of Paper.
- Timing.
- Reading Comprehensions Explained.
- Vocabulary & Question Words Analysed.
- Written Production & Grammar.
- Forming Phrases, Expressing Opinions & Using a Variety of Tenses.
- Sample Answers.
- Aural Work.
- Sample Questions.
- Q & A.

## LC French Oral

- Myself.
- My Family.
- My Area.
- My Hobbies.
- Review Common Errors.
- Complete a Mock Exam.

## LC Geography H Course 1

- Plate Tectonics.
  - Boundaries.
  - Volcanoes.
  - Earthquakes.
- Rocks.
- Rivers.
- Isostasy.
- Biomes

## LC German H

- Overview of Paper & Timing.
- Key Grammar Topics & Past Paper Exercises.
- *Reading Comprehension, Extension on the Topic & Letter Writing*: Word Order Rules, Key Vocabulary, German Idioms, Opening/Closings, Marking Scheme, Past Paper Examples.
- Exam Strategy.

## LC German Oral

- Overview of Oral Exam.
- Key Vocabulary, German Idioms & Useful Phrases.
- General Conversation, Picture Stories & Role – Play Practice.
- Pronunciation Tips.
- Exam Strategy.

## LC Home Economics H Course 1

Focus on Long Q1, Q2 & Core Elective.

- Nutrients.
- Food Commodities.
- Processing & Packaging.

## LC Home Economics H Course 2

Focus on Long Q3, Q4 & Core Elective.

- Microbiology.
- Food Spoilage & Preservation.
- Food Safety & Hygiene.
- Technology in the Home.
- Finance & Housing.

## HPAT Course 1

### Sections 1 & 3:

- Logical & Non Verbal

## LC History H

### **DBQ**

- Stalin's Show Trial's.
- The Nuremberg Rallies.
- The Jarrow March.
- Practicing Exam Style Questions & Evaluating Historical Sources.

## LC Irish H

### **Páipéar 1**

- An Aiste: Multiple Sample Essay's Given.

### **Páipéar 2**

- Dánta: The 3 most likely Poems to come up in 2025 will be covered.
- Prós: The 3 most likely Prós to come up in 2025 will be covered.

## LC Oral Irish

- Fáiltiú.
- Filiócht.
- Comhrá.
  - Mé Féin.
  - Mo Cheantar.
  - Mo Scoil.
  - Mo Chaitheamh Aimsire.
  - Saol an Dalta i ndiaidh na Scoile.
  - Teicneolaíocht.
  - An Ghaeilge agus An Ghaeltacht.
- Sraith Pictiúr:
  - Advice on how to prepare for the Sraith Pictiúr.

## LC Maths H Course 1

### **Differentiation Calculus**

#### **Topics Covered:**

- Applying the Rules of Differentiation: This includes using the product, quotient, and chain rule. Applying these rules to differentiate Trigonometric, Exponential, Logarithmic and Inverse Trigonometric Functions.

- Limits, Asymptotes & Continuity of Functions.
- Differentiation using first principles.
- *Applications of Differentiation:* Turning Points, The Second Derivative Test, Maximum & Minimum Points, Increasing & Decreasing Functions.
- *Differentiation Word Problems:* Maximum & Minimum Word Problems, Rates of Change & Related Rates of Change.
- Exam Questions from Section A & Section B of the Exam Papers on Differentiation.

## LC Maths H Course 2

### Probability and Statistics

#### Topics Covered:

- *Statistics:* The Correlation Coefficient & Line of Best Fit. The Normal Distribution, Z Scores & Solving problems using the Normal Distribution Tables.
- *Probability:* The Addition Rule, The Multiplication Rule, Independent Events, Mutually Exclusive Events, Conditional Probability, Expected Value, Bernoulli Trials & The Binomial Distribution, Difficult Word Problems on Probability.
- *Inferential Statistics:* The Central Limit Theorem, Confidence Intervals & Hypothesis Testing using sample means, Proportions & P Values.
- Exam Questions from Section A & Section B of the Exam Papers on Probability & Statistics.

## LC Maths H Course 3

### Co Ordinate Geometry of the Line & Circle

#### Topics Covered:

- *Co Ordinate Geometry of the Line:* The Area of a Triangle, Internal & External Division of a Line Segment, The Perpendicular Distance Formula, The Angle



Between 2 Lines, Finding the Circumcentre, Orthocentre & Centroid of a Triangle using Co Ordinate Geometry.

- Co Ordinate Geometry of the Circle: Finding the Centre & Radius of Circles, The Intersection of a Line & Circle, Tangents & Circles, More Difficult Problems in finding the Equation of a Circle when you are given certain restrictions.
- Exam Questions from Section A & Section B of the Exam Papers on Co Ordinate Geometry of the Line & Circle.

## LC Maths H Course 4

### Trigonometry

#### Topics Covered:

- The Sine Rule, Cosine Rule, Area of a Triangle & 3 Dimensional Problems.
- Solving Trigonometric Equations using CAST.
- The Graphs of Trigonometric Functions.
- Using the Formulae from The Log Tables to prove Trigonometric Identities.
- Exam Questions from Section A & Section B of the Exam Papers on Trigonometry.

## LC Maths H Course 5

### Functions, Indices & Logarithms

#### Topics Covered:

- **Functions:** Composite Functions, Completed Square Form, Inverse Functions, Injective Surjective & Bijective Functions.
- **Indices:** Solving Quadratic Equations Using Indices.
- **Logarithms:** Solving Log Equations, Writing Expressions a Single Logs,
- Using the Natural Log to get a Power Down, Log Word Problems.
- Exam Questions from Section A & Section B of the Exam Papers on Functions, Indices & Logarithm.

## LC Maths H Course 6

### **Financial Maths**

#### **Topics Covered:**

- Lump Sum & Depreciation Questions.
- Annuity, Savings & Investment Questions.
- Amortisation Schedules & Using the Amortisation Formula.
- The Present Value Series.
- Problems Involving Bonds & Pensions.
- Deriving the Amortisation Formula.
- Exam Questions from Section A & Section B of the Exam Papers on Financial Maths.

## LC Maths P Course 1

### **Unit 1: Algebra**

- Algebraic Operations on Polynomials & Rational Functions.
- Addition, Subtraction, Multiplication & Division & the use of Brackets & Surds.

- Laws of Indices.
- Factorisation of such Polynomials (The Linear & Quadratic Factors having Integer Coefficient).
- Solution of Cubic Equations with at least One Integer Root.
- Quadratic Equations by Factoring or using the -B Formula.
- Form a Quadratic from its Roots.
- Inequalities with X.
- Solving for X as a Power.

### **Unit 2: Functions with Differential Calculus**

- Differentiation by Rule & First Principles.
- Rules of Sums, Products & Quotients.
- First Derivatives of Polynomials, Rational, Power.
- First Derivatives of Products.
- First Derivatives of Quotients.
- Simple Second Derivatives.
- Maxima & Minima.

### **Unit 3: Complex Numbers**

- Real & Imaginary Part to Complex Numbers.
- Adding/Subtracting Complex Numbers.
- Multiplying Complex Numbers.
- The Conjugate.
- Dividing Complex Numbers.
- Plotting Complex Numbers on a Graph (Argand Diagrams).
- The Modules.
- Quadratic Equations with Complex Numbers.
- Transformations with Complex Numbers.

## LC Maths P Course 2

### **Unit 1: Co Ordinate Geometry of the Straight Line & Circle**

- General Equation of the Line in Form  $-ax + by + c = 0$ .
- Length of Perpendicular from  $(x_1, y_1)$  to  $ax + by + c = 0$ .
- Angle Between Two Lines with Slopes  $m_1$  &  $m_2$ .
- Equation Circle Centre  $(0,0)$  & Radius  $r$  ( $x^2 + y^2 = r^2$ ).
- Equation of Tangent at  $(x_1, y_1)$  to  $x^2 + y^2 = r^2$ .
- Intersection of Line & Specific Circle.

### **Unit 2:**

- Probability of an Outcome with one event happening.
- Probability of an Outcome with two events happening.
- Fundamental Principle of Counting.
- Arrangements – Permutations.
- Expected Frequency.
- Or Rule (Add): Mutually Exclusive Events.
- And Rule/The Multiplication Rule – Bernoulli Trial.
- Tree Diagram.
- Expected Values – Law of Large Numbers.

### **Unit 3: Trigonometry**

- Calculate the Area of a Sector of a Circle & the Length of an Arc & Solve Problems Involving these Calculations.
- Pythagoras Theorem.
- Use Trigonometry to Calculate the Area of a Triangle.

- Use the Sine & Cosine Rules to Solve Problems 2D & 3D.
- Define Sine A, Cos A & Tan A for all values of A.

## LC Music H

- Bach.
- Barry.
- Irish Music.
- Melody.

## LC Physics H Course 1

- **Optics**: Reflection & Mirrors.
- **Optics**: Refraction & Lenses.

- **Current Electricity:** Circuits, Ohm's Law, Resistivity, Resistance, Wheatstone & Metre Bridges.
- **Circuit Problems:** Resistors, Inductance Coils, Diodes with DC & AC Sources.

## LC Physics H Course 2

- **Sound:** Sound Intensity, Decibel Scale, Velocity of Sound, Doppler Effect.
- **Sound:** Travelling Waves, Standing Waves, Open & Closed Pipes, Sonometer.
- **Electrostatics:** Coulomb Law, Definition of Charge, Electroscope.
- **Capacitance:** Parrell Plate, Van De Graaf Generator, Energy Heat & Temperature, Calibration, Latent & Specific Heat, Heat Exchangers, Heat Engines, Heat Pumps, Refrigerators.

## LC Physics H Course 3

- **Atomic Theory:** Rutherford, Millikan, Planck, Bohr, Electromagnetic Radiation & Spectrum, Electron, Photon, Line & Continuous Spectra.
- **Photoelectric Effect:** Importance & Photocells.
- **X- Rays:** Rontgen, X-Ray Tubes, Applications.
- **Cathode Ray Tubes:** Electric & Magnetic Fields, Faraday, Fluorescence.
- **Semiconductors:** Theory, Diodes.
- **Radioactivity:** Detectors, Nuclear Decay Processes.
- **Fission & Fusion:** Nuclear Processes, Reactors, Link to Heat Exchangers & Power.

## LC Physics H Course 4

- **Vectors:** Addition, Equilibrium.

- **Newton's Laws:** Force, Momentum, Momentum Conservation, Friction.
- **Kinematics:** Equations & Problem Solving.
- **Work:** Energy & Power, Mechanical Energy.
- **Conservation Centripetal Forces:** Types of Centripetal Forces, Radians, Problem Solving.
- **Gravitation:** Satellites, Weightlessness, Earth Spin, Link to Doppler & Speed of Light.
- **Simple Harmonic Motion:** Pendulums, Spring Constants.
- **Moments:** Equilibrium, Couples.
- **Archimedes:** Flotation, Hot Air Ballons, Density, Boyle's Law.

## LC Physics H Course 5

- Mechanics.
- Electricity.
- Sound.
- Optics.
- Heat.
- Light.

## LC Spanish H

### **Section 1:**

- Comprehension Strategies.

**Section 2:**

- Opinion Piece & Writing Skills.

**Section 3:**

- Verbs & Tenses Practice.

**Section 4:**

- Vocabulary Learning & Synonym Skills.

**Section 5:**

- Aural & Oral Exam Strategies.

## LC Oral Spanish

This Comprehensive Course is tailored to help Students Excel in the Leaving Cert Spanish Oral Exam by focusing on:

- **General Conversation Practice:** Students will work on Key Topics (*mi familia, mi barrio, hablando del pasado y del futuro etc*) with an emphasis on fluency, tenses, expressions & confidence.
- **Role Play Practice:** Students will engage in typical exam scenarios, with emphasis on using appropriate tenses & handling spontaneous questions.

**Benefits:** Students will receive feedback, improve fluency & boost their confidence to maximize marks.