Your Passport to Achieving

TOP GRADES IN IBDP

Test Prep and Tutoring

UniHawk

Guiding you always

IBDP BRIDGE PROGRAM – MATH

UniHawk
Guiding you always

Session	Topic
Orientation	
Month 1	
Week 1-2	**Algebra** • Number sequences • Arithmetic sequences • Geometric sequences • Growth and Decay • Financial mathematics • Series & Arithmetic series • Finite and infinite • Geometric Sequence
Week 3	**Algebra** • Loans and Annuities
Week 4	**Algebra** • Surds and exponents- Surds and other radicals • Division by surds • Exponents • Laws of exponents • Scientific notations
Baseline Test (On the topics completed within the first two weeks)	
Month 2	
Week 1	**Algebra** • Approximation and Error
Week 2	**Functions** • Straight lines- Finding the equation of straight line • Graphing straight lines • Perpendicular bisectors • Simultaneous equations

Week 3	**Functions** • Functions: Relations and functions • Function notations • Domain and range • Graph of functions • Sign diagrams • Transformation of graphs • Inverse functions
Week 4	**Functions** • Quadratic Functions-Quadratic functions • Graphs from a table of values • Axis interprets • Graphs of quadratic functions • Axis of symmetry • Vertex • Finding the quadratic form from its graph • Intersection of graphs, quadratic models
Month 3	
Week 1	**Functions** • Powered equation • Equations in factored form • Quadratic equations • Solving polynomial equations using technology • Solving other equations using technology
Week 2	**Functions** • The modelling cycle • Linear models • Pricewise linear models • System of equations
Week 3	**Functions** • Exponential Functions • Graphing exponential functions from a table of values • Exponential graphs • Exponential equations • Growth and decay • Natural exponential • Logarithms in base 10 • Natural Logarithms

Week 4	**Functions** • Direct and inverse variation: Direct variation • Powers in direct variation • Inverse variation • Determining the variation model • Using technology to find the variation models
Unit assessment on all the topics covered in Month M1 and Month M2 and M3	
Month 4	
Week 1	**Statistics and Probability** • Venn Diagrams: Sets, Intersection and Union • Complement of a set • Special number sets • Interval topics covered in Term 2 notations • Venn diagrams • Venn diagram regions
Week 2	**Statistics and Probability** • Probability: Experimental probability • Two-Way table • Sample Space and events • Theoretical probability • The additional law of Probability • Independent and dependent events • Conditional probability • Making predictions using probability
Week 3	**Statistics and Probability** • Sampling and Data: Errors in Sampling • Sampling Methods • Types of Data • Simple discrete data • Grouped discrete data • Continuous data
Week 4	**Statistics and Probability** • Statistics: Measuring the centre of data • Choosing the appropriate method • Using Frequency table • Grouped data

Week 4	• Box and whiskers diagram outliers • Parallel and whiskers diagram • Cummulative frequency graph • Variance and standard deviation
Month 5	
Week 1	**Statistics and Probability** • Bivariate data: Association between numerical variables • Pearson's product moment correlation co-effecient • Line of best fit by eyes • The least squares regression line • Spearman's rank correlation co-efficient
Week 2	**Statistics and Probability** • Discrete Random variable: Random variables • Discrete probability distribution • Expectations • The Binomial distribution • Using technology to find the binomial distribution • Mean and standard deviation of binomial distribution
Week 3	**Statistics and Probability** • The normal distribution: Introduction to normal distribution • Calculating probabilities • Quantiles
Week 4	**Statistics and Probability** • Hypothesis testing: Statistical hypotheses • Student's test • The two sample test to compare the population mean • chi-square (X2) goodness of fit test • chi-square (X2) test independence

IBDP BRIDGE PROGRAM – CHEMISTRY

UniHawk
Guiding you always

Session	Topic
Orientation	
Month 1	
Week 1	**Introduction to IB Core Components** • What is a Bridge Course & Why is it important ? • Curriculum Adaptation • Mindshift & Self-Directed Learning
Week 2	**Models of the Particulate Nature of Matter** • Introduction to the particulate nature of matter • The Nuclear Atom • Electron Configurations • Counting particles by Mass: The Mole concept
Week 3	**Models of the Particulate Nature of Matter** • Ideal Gases **Models Of Bonding & Structure** • The ionic Model • The Covalent Model
Week 4	**Models Of Bonding & Structure** • The Covalent Model &The Metallic Model • From Models to Materials
Assessing the transition journey	
Month 2	
Week 1	**Classification of Matter** • The Periodic Table : Classification of elements • Functional Groups

Week 2	**Classification of Matter** • Classification of Organic Compounds • Transition Metals
Week 3	**Assessing the concepts** • Concept review & doubt solving: An Atom • Structure of an Atom • The mole • Ideal Gases • Periodic Trends • Organic Chemistry
Week 4	**How and why the chemical reactions occur** • Introduction to the Recativity theme of IB • Concepts covered and the ATL skills
Month 3	
Week 1	**What drives Chemical Reaction ?** • Measuring Entahlpy Changes • Energy Cycles in reactions • Energy From fuels
Week 2	**What drives Chemical Reaction ?** • Entropy & spontaneity • Revesion & practice questions on R1
Week 3	**How much ? How fast & How far ?** • How much is the amount of the chemical change • How fast is the rate of the chemical change
Week 4	**How much ? How fast & How far ?** • What is the extent of the chemical change • Extended: Extent of the chemical reactions with calculations
Month 4	
Week 1	**What are the mechanisms of chemical change?** • Proton Transfer Reactions • Proton Transfer Reactions with mechanisms • Proton Transfer Reactions : Numeric questions

Week 2	**Questions assessemnt on Reactivity 2 along with ATL skills**
Week 3	**What are the mechanisms of chemical change?** • Electron Transfer Reactions • Electron Transfer Reactions with mechanisms
Week 4	**What are the mechanisms of chemical change?** • Electron Sharing Reactions
Month 5	
Week 1	**What are the mechanisms of chemical change?** • Electron Pair sharing equations • Electron Pair sharing equations with mechanisms • Electron Pair sharing equations with mechanisms
Week 2	**Revesion of R3 & reaction mechanisms revesion**
Week 3	**Questions assessemnt on Reactivity 3 along with ATL skills**
Week 4	**Revesion of the Reactivity theme & doubt solving**

IBDP BRIDGE PROGRAM – BIOLOGY

UniHawk
Guiding you always

Session	Topic
Orientation	
Month 1	
Week 1	**Unity and Diversity** • Water
Week 2	**Unity and Diversity** • Nucleic Acid
Week 3	**Unity and Diversity** • Cell Structure
Week 4	**Unity and Diversity** • Viruses
Baseline Test (On the topics completed within the first two weeks)	
Month 2	
Week 1	**Forms and Function** • Carbohydrates
Week 2	**Forms and Function** • Lipids
Week 3	**Forms and Function** • Proteins
Week 4	**Forms and Function** • Gas Exchange
Month 3	
Week 1	**Forms and Function** • Organelles and compartmentalisation
Week 2	**Forms and Function** • Organelles and compartmentalisation
Week 3	**Forms and Function** • Cell Specilisation

Week 3	**Forms and Function** • Cell Specilisation
Week 4	**Forms and Function** • Cell Specilisation
Unit assessment on all the topics covered in Month M1 and Month M2 and M3	
Month 4	
Week 1	**Interaction and Interdependence** • Enzymes and metabolism
Week 2	**Interaction and Interdependence** • Cell Respiration
Week 3	**Interaction and Interdependence** • Cell Respiration
Week 4	**Interaction and Interdependence** • Photosynthesis
Month 5	
Week 1	**Continuity and Change** • DNA replication
Week 2	**Continuity and Change** • DNA replication
Week 3	**Continuity and Change** • Protein Synthesis
Week 4	**Continuity and Change** • Protein Synthesis

IBDP BRIDGE PROGRAM – PHYSICS

UniHawk
Guiding you always

Session	Topic
Orientation	
Month 1	
Week 1-2	**Space, Time & Motion** • Kinematics
Week 3	**Space, Time & Motion** • Forces and momentum
Week 4	**Space, Time & Motion** • Work, energy and power
Baseline Test (On the topics completed within the first two weeks)	
Month 2	
Week 1	**Space, Time & Motion** • Revision of Theme A topics
Week 2	**The Particulate Nature of Matter** • Thermal enrgy transfers
Week 3	**The Particulate Nature of Matter** • Greenhouse effect
Week 4	**The Particulate Nature of Matter** • Ideal gas model
Month 3	
Week 1	**The Particulate Nature of Matter** • Electric circuits

Week 2	**Wave behaviour** • Simple Harmonic Motion
Week 3	**Wave behaviour** • Simple Harmonic Motion Continued
Week 4	**Wave behaviour** • Travelling Waves
Unit assessment on all the topics covered in Month M1 and Month M2 and M3	
Month 4	
Week 1	**Wave behaviour** • Refraction
Week 2	**Wave behaviour** • Diffraction
Week 3	**Wave behaviour** • Superposition and Interference
Week 4	**Wave behaviour** • Superposition and Interference continued
Month 5	
Week 1	**Scientific Skills and Tools** • Measurement
Week 2	**Scientific Skills and Tools** • Uncertainties
Week 3	**Scientific Skills and Tools** • Vectors
Week 4	**Scientific Skills and Tools** • SI Units

IBDP BRIDGE PROGRAM – ECONOMICS

UniHawk
Guiding you always

Session	Topic
Orientation	
Month 1	
Week 1	**Introduction to Economics** • Topics in IB not covered in ICSE
Week 2	**Introduction to Economics** • Topics in IB not covered in ICSE
Week 3	**Microeconomics** • Demand, Supply, Equilibrium
Week 4	**Microeconomics** • Maximizing behavior, Elasticity: PED, YED, PED
Baseline Test (On the topics completed within the first two weeks)	
Month 2	
Week 1	**Microeconomics** • Role of Government in Microeconomics
Week 2	**Microeconomics** • Market Failure: Externalities, Public goods
Week 3	**Microeconomics** • Market Failure: Asymmetric information, Market Power
Week 4	**Macroeconomics** • Market Failure: Market Power (cont.)

Month 3	
Week 1	**Macroeconomics** • Measuring Economic Activity
Week 2	**Macroeconomics** • AD,AS, Macroeconomic Objectives
Week 3	**Macroeconomics** • Inequity & Poverty
Week 4	**Macroeconomics** • Monetary Policy
Unit assessment on all the topics covered in Month M1 and Month M2 and M3	
Month 4	
Week 1	**Macroeconomics** • Fiscal Policy
Week 2	**Macroeconomics** • Supply side policies
Week 3	**The Global Economy** • Benefits & types
Week 4	**The Global Economy** • Trade protection & Economic integration
Month 5	
Week 1	**The Global Economy** • Exchange Rates
Week 2	**The Global Economy** • BOP
Week 3	**The Global Economy** • Sustainable & Economic Development
Week 4	**The Global Economy** • Economic Growth & Development Strategies

IBDP BRIDGE PROGRAM – BUSINESS

UniHawk
Guiding you always

Session	Topic
Orientation	
Month 1	
Week 1	**Introduction to BM** • Topics in IB not covered in ICSE
Week 2	**Introduction to BM** • Topics in IB not covered in ICSE
Week 3	**Introduction to BM** • Topics in IB not covered in ICSE
Week 4	**Human Resource Management** • HR Planning, Trends, Change, Organisational Design
Baseline Test (On the topics completed within the first two weeks)	
Month 2	
Week 1	**Human Resource Management** • Organisational Structures, Leadership styles, Motivation theories
Week 2	**Human Resource Management** • Labour turnover, recruitment, financial/non-financial rewards, training, Organisational culture
Week 3	**Finance & Accounts** • Sources, Costs, Revenue, Final Accounts
Week 4	**Finance & Accounts** • Final Accounts (Cont.), Profitability & Liquidity Ratios
Month 3	
Week 1	**Finance & Accounts** • Efficiency Ratios, Cash flow

Week 2	**Finance & Accounts** • Investment Appraisal
Week 3	**Finance & Accounts** • Budgets
Week 4	**Marketing** • Marketing Planning, Sales Forecasting
Unit assessment on all the topics covered in Month M1 and Month M2 and M3	
Month 4	
Week 1	**Marketing** • Market Research, International Marketing
Week 2	**Marketing** • Marketing Mix
Week 3	**Marketing** • Marketing Mix (cont.)
Week 4	**Operations Management** • Operations methods, Lean production, Quality Management
Month 5	
Week 1	**Operations Management** • Location & Break Even Analysis
Week 2	**Operations Management** • Production Planning
Week 3	**Operations Management** • Crisis Management, Contingency Planning
Week 4	**Operations Management** • R&D, Crisis Management Systems

Get in **Touch**

Reach out to our educational consultants to enroll.

DIFC	Media City	Abu Dhabi	Sharjah	Bahrain
+971 50 877 8589	*+971 56 199 2708*	*+971 54 289 2118*	*+971 54 307 7124*	*+971 50 574 0179*
Donita Fernandes	*Nancy Anthony*	*Sharmeen Shaikh*	*Misha Saxena*	*Krishan Wadekar*

Click to hear to Learn More