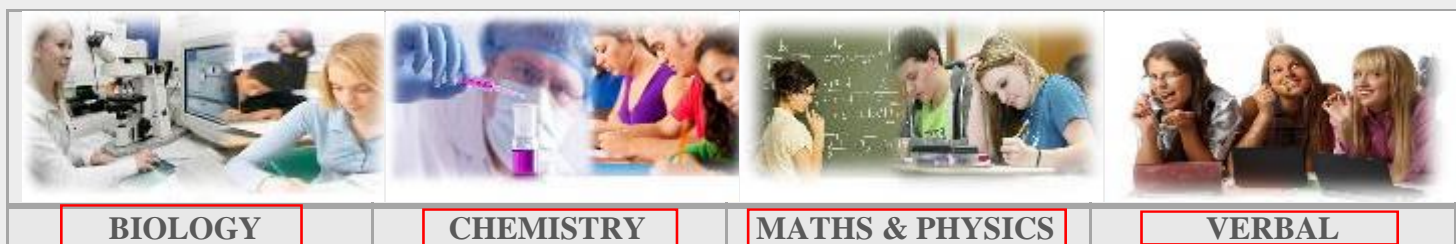




IMAT ONLINE COURSES

COURSE CONTENTS

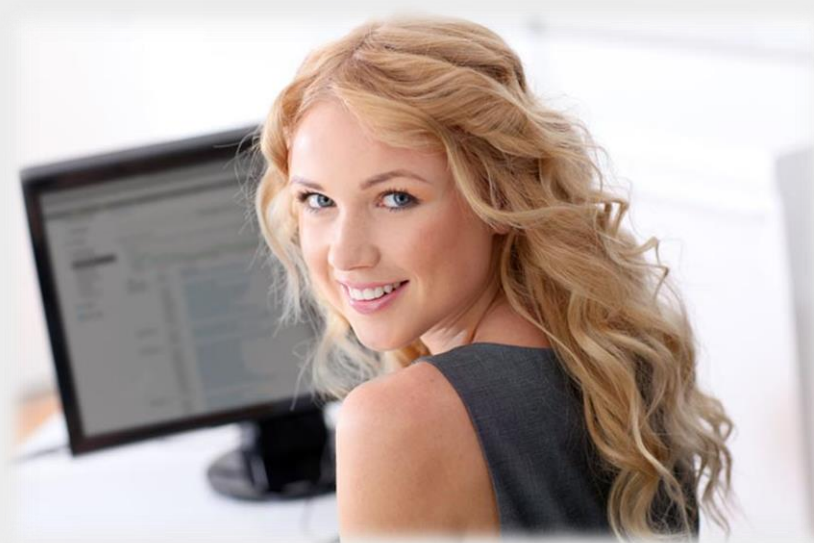


BIOLOGY

CHEMISTRY

MATHS & PHYSICS

VERBAL



BIOLOGY ONLINE

UNIT 1

Video Presentation: Biology Unit 1 - **Lessons & Questions:** The Chemicals of Life: Macromolecules, Polymers - **Tests:** Revision Test 1

UNIT 2

Video Presentation: Biology Unit 2 - **Lessons & Questions:** The cell theory and ultra-structure of cells, Cell membranes, Cell Division - **Tests:** Revision Test 2

UNIT 3

Video Presentations: Biology Unit 3 - **Lessons & Questions:** Energy and Enzymes, Cellular Respiration, Photosynthesis - **Tests:** Revision Test 3

UNIT 4

Video Presentation: Biology Unit 4 - **Lessons & Questions:** Mendels experiments: Monohybridism and Dihybridism, Interactions between the alleles of one gene, Chromosomal Theory of Inheritance - **Tests:** Revision Test 4

UNIT 5

Video Presentation: Biology Unit 5 - **Lessons & Questions:** Molecular Biology, Central Dogma of Biology, Mutations - **Tests:** Revision Test 5

UNIT 6

Video Presentation: Biology Unit 6 - **Lessons & Questions:** Tissues, Nervous system, Endocrine system, Cardiovascular system - **Tests:** Revision Test 6

UNIT 7

Video Presentation: Biology Unit 7 - **Lessons & Questions:** ANATOMY AND PHYSIOLOGY: Urinary system, Reproductive system, Respiratory system, Digestive system, Skeletal System, Immune System - **Tests:** Revision Test 7

UNIT 8

Video Presentation: Biology Unit 8 - **Lessons & Questions:** Genetic Engineering, Evolution Theories - **Tests:** Revision Test 8

CHEMISTRY ONLINE

UNIT 1

Video Presentation: Chemistry Unit 1 - **Lessons & Questions:** The Atom, Electron Arrangement - **Tests:** Revision Test 1

UNIT 2

Video Presentation: Chemistry Unit 2 - **Lessons & Questions:** Periodicity - **Tests:** Revision Test 2

UNIT 3

Video Presentations: Chemistry Unit 3 - **Lessons & Questions:** Ionic Bonding, Covalent Bonding, Molecular Geometry & Bonding, Intermolecular Forces - **Tests:** Revision Test 3

UNIT 4

Video Presentation: Chemistry Unit 4 - **Lessons & Questions:** The Mole concept and Avogadro's constant, Chemical Equations, Stoichiometry in Gases and Liquids - **Tests:** Revision Test 4

UNIT 5

Video Presentation: Chemistry Unit 5 - **Lessons & Questions:** Theories of Acids and Bases, Properties of Acids and Bases - **Tests:** Revision Test 5

UNIT 6

Video Presentation: Chemistry Unit 6 - **Lessons & Questions:** Oxidation and Reduction, Nomenclature of Inorganic Molecules - **Tests:** Revision Test 6

UNIT 7

Video Presentation: Chemistry Unit 7 - **Lessons & Questions:** Organic Chemistry, Hydrocarbons, Alcohols, Ethers, Carbonylic compounds, Carboxylic acids, Amines - **Tests:** Revision Test 7

UNIT 8

Video Presentation: Chemistry Unit 8 - **Lessons & Questions:** Equilibrium

MATHS & PHYSICS ONLINE

UNIT 1

Maths

Lessons & Questions: Algebraic Identities Lesson, Inequalities, Number Sets.

Physics

Lessons & Questions: Vectors and Scalars, The SI system

UNIT 2

Maths

Lessons & Questions: Power of Integers, Absolute Value, Radicals, Ratio, Proportions, Percent Formula, Work Problem

Tests: Drill 1

Physics

Lessons & Questions: Linear momentum, Kinematic concepts

UNIT 3

Maths

Lessons & Questions: Solid Geometry, Squares, Angles

Physics

Lessons & Questions: The concept of force, TORQUE

UNIT 4

Maths

Lessons & Questions: Logarithms

Tests: Geometry Review Questions, Drill 2

Physics

Lessons & Questions: Work, Energy and Power

Tests: Physics Review Questions, Physics Drill 1

UNIT 5

Maths

Lessons & Questions: Coordinate Geometry, Trigonometry

Physics

Lessons & Questions: Density, Pressure, Archimedes Principle - Ideal Gases, Thermodynamics

UNIT 6

Maths

Lessons & Questions: Conics, Statistics

Physics

Lessons & Questions: Electric Field, Magnetic Field

Tests: Electric Field Exercises

UNIT 7

Maths

Lessons & Questions: Probability Theory, Permutations – Combinations

Tests: Drill 3

Physics

Lessons & Questions: Circular motion, Simple Harmonic Motion

UNIT 8

Maths

Tests: Revision Test 1, Revision Test 2

Physics

Tests: Drill 2, Drill 3, Drill 4

VERBAL ONLINE: GENERAL KNOWLEDGE AND LOGICAL REASONING

UNIT 1

How to Answer Verbal Questions

Tests: Verbal Questions 1, Thinking Skills 1

UNIT 2

How to Answer Verbal Questions

Tests: Verbal Questions 2, Thinking Skills 2

UNIT 3

How to Answer Verbal Questions

Tests: Verbal Questions 3, Thinking Skills 3

UNIT 4

How to Answer Verbal Questions

Tests: Verbal Questions 4, Thinking Skills 4

UNIT 5

How to Answer Verbal Questions

Tests: Verbal Questions 5, Thinking Skills 5

UNIT 6

How to Answer Verbal Questions

Tests: Verbal Questions 6, Thinking Skills 6

UNIT 7

How to Answer Verbal Questions

Tests: Verbal Questions 7, Thinking Skills 7

UNIT 8

How to Answer Verbal Questions

Tests: Verbal Questions 8, Thinking Skills 8