



AIR FORCE GROUP X

- **ENGLISH**
- **PHYSICS**
- **MATHEMATICS**

ENGLISH

- Reading Comprehension
- Grammar
- Word Formation(nouns from verbs, adjectives, etc.)
- Proposition
- Determiners
- Noun & Pronoun
- Modals
- Clauses (noun, adverb & relative conjunction Adverb clauses)
- Subject-verb concord
- Verb formation and error in their use
- Sentence transformation (simple, negative, compound, complex, etc.)
- One-word substitution
- Synonyms
- Antonyms
- Spelling errors
- Idioms and phrases

PHYSICS

- Physical World and Measurement
- Kinematics
- Laws of Motion
- Work, Energy and Power
- The motion of System of Particles and Rigid Body
- Gravitation
- Properties of Bulk Matter
- Thermodynamics
- The behavior of Perfect Gases and Kinetic Theory of Gases



- Electrostatics
- Current Electricity
- Magnetic Effects of Current and Magnetism
- Electromagnetic Induction and Alternating Current
- Electro-Magnetic Waves
- Optics
- Dual Nature of Matter and Radiation
- Atoms and Nuclei
- Electronic Devices
- Communication Systems
- Oscillations and Waves

MATHEMATICS

- Sets, Relations, and function
- Trigonometric Functions
- Inverse Trigonometric Functions
- Complex Number and Quadratic Equations
- Linear Inequalities
- Mathematical Induction
- Permutations and Combinations
- Binomial Theorem
- Sequences and Series
- Cartesian system of rectangular coordinates
- Straight lines and family of lines
- Circles and family of circles
- Conic sections
- Three-dimensional Geometry
- Limit and continuity
- Differentiation
- Applications of Derivatives
- Indefinite integrals
- Applications of the Integrals
- Differential Equations
- Mathematical reasoning



- Linear programming
- Vector
- Probability
- Statistics

MUPPADAI TRAINING ACADEMY - VELLOR, TRICHY