

PURE SCIENCES GRADE 12 TUITION CLASSES

MATHEMATICS
PHYSICAL SCIENCES
LIFE SCIENCES

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Megatude™ is an educational network dedicated to teaching, inspiring and motivating South African learners to excel in the fields of mathematics and pure sciences. With the use of various exciting teaching methods and new technology, we prime on excellence and quality education to bridge the gap between secondary and tertiary institution educational needs. With much scientific research and many years of experience in both secondary and tertiary education, the founder of Megatude™ coupled with qualifications of a BSc Biochemistry, Microbiology & Chemistry; PGCE Physical Sciences *cum laude*; BEd Honours Physical Sciences *cum laude* and completing an MEd has seen the need to use knowledge and experience to develop a system which will inspire learners to not only strive for a 30% or 50% pass but have the confidence to reach their maximum distinction possible. Few learners pursue pure sciences in secondary schools, from which fewer pass these subjects and according to studies on average about 3% of learners obtain a distinction in Physical Sciences. We pride ourselves in developing and training learners to become independent, scientific thinkers who can adopt a sense of compassion for the world around them hence positively impacting our country. We not only equip learners with content knowledge but also enhance their life skills to help them reach their highest potential on international standards.

MATHEMATICS

- Algebra
- Patterns, Sequences, Series
- Functions & Inverses
- Financial Maths
- Differential Calculus
- Cubic Functions
- Optimisation
- Rate of Change
- Probability
- Statistics
- Analytical Geometry
- Trigonometry
- Euclidean Geometry

PHYSICAL SCIENCES

- Newton Laws of Motion
- Momentum & Impulse
- Vertical Projectile Motion
- Work, Energy & Power
- Organic Chemistry
- The Doppler Effect
- Stoichiometric Calculations
- Reaction Rates
- Chemical Equilibrium
- Acids & Bases
- Electrochemistry
- Electric Circuits
- Electrodynamics
- The Photoelectric Effect
- The Fertiliser Industry

LIFE SCIENCES

- DNA: The code of life
- Meiosis
- Genetics & Inheritance
- Reproduction in vertebrates
- Human reproduction
- Humans responding to the environment
- Human endocrine system
- Homeostasis in humans
- Plants responding to the environment
- Human impact on the environment
- Natural selection
- Human Evolution

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