



**ATHENS COLLEGE**

Hellenic-American Educational Foundation

Kindergarten • Elementary • Junior High • High

ATHENS COLLEGE • PSYCHICO COLLEGE • KINDERGARTEN J. M. CARRAS

1925



## International Baccalaureate Diploma Programme

### ADMISSIONS EXAM SYLLABUS

#### MATHEMATICS

##### NUMBER AND ALGEBRA

Rounding.

Absolute value.

Ratio, percentage, and proportion.

Algebraic expressions, including factorization and expansion.

Exponential expressions with integer exponents.

Inequalities,  $<$ ,  $\leq$ ,  $>$ ,  $\geq$ , intervals on the real number line.

Expressions involving roots.

Solution of linear equations and inequalities.

Solution of quadratic equations and inequalities.

Solving systems of linear equations in two variables.

Algebraic fractions.

Sequences, including arithmetic and geometric.

##### FUNCTIONS

The graphs of linear functions.

Mappings of the elements of one set to another.

##### GEOMETRY

Right angled triangles including Pythagoras' Theorem.