



**MASET
2024**

MATHS AND SCIENCE EXCELLENCE TEST

IDEAL INDIAN SCHOOL

Celebrating 40 years of Excellence in Education

SYLLABUS FOR OLYMPIAD Mathematics

SYLLABUS FOR OLYMPIAD (GRADE 8)

NUMBER SYSTEM
FRACTIONS & DECIMALS
SIMPLE EQUATIONS
LINES, ANGLES AND TRIANGLES
PLACE VALUE, ORDERING AND ROUNDING
SYMMETRY
PERCENTAGE AND RATIO AND ROPORTION
MENSURATION - AREAS AND PERIMETER OF SIMPLE PLANE FIGURES
BASIC FINANCIAL MATHEMATICS
PROBABILITY AND GRAPHS
GENERAL APTITUDE – NUMBER SERIES, ALPHABET NUMBER SERIES
REASONING APTITUDE – VERBAL AND NON-VERBAL

SYLLABUS FOR OLYMPIAD (GRADE 9)

NUMBERS AND NUMBER SYSTEMS
LINEAR EQUATIONS AND GRAPHS
COORDINATE GEOMETRY
SUARE, SQUARE ROOTS, CUBES AND CUBE ROOTS
RATIO AND PROPORTIONS
LINES, ANGLES AND TRIANGLES
MENSURATION – AREAS, PERIMETERS, SURFACE AREAS AND VOLUMES
ALGEBRAIC EXPRESSIONS, IDENTITIES AND FACTORISATION
BASIC FINANCIAL MATHEMATICS
PROBABILITY AND STATISTICS
GENERAL APTITUDE – NUMBER SERIES, ALPHABET NUMBER SERIES
REASONING APTITUDE – VERBAL AND NON-VERBAL

SYLLABUS FOR OLYMPIAD (GRADE 10)

NUMBER SYSTEMS, RATIO AND PROPORTIONS
POLYNOMIALS
LINEAR EQUATIONS AND GRAPHS
CRICLES ANDAREAS RELATED TO CIRLCES
LINES ANGLES, TRIANGLES, QUADRILATERAL
COORDINATE GEOMETRY
BASIC FINANCIAL MATHEMATICS
MENSURATION - AREAS, PERIMETERS, SURFACE AREAS AND VOLUMES
STATISTICS
PROBABILITY
GENERAL APTITUDE – NUMBER SERIES, ALPHABET NUMBER SERIES
REASONING APTITUDE – VERBAL AND NON-VERBAL
TIME, SPEED AND WORK

IDEAL INDIAN SCHOOL

P.B. No. 2836, Doha-Qatar, Tel : 44684849 (6 Lines) Fax : 44682939

Email : admin@idealschoolqatar.com Web: www.idealschoolqatar.com



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SYLLABUS FOR OLYMPIAD Science

SYLLABUS FOR OLYMPIAD (GRADE 8)

PHYSICS

HEAT AND ITS EFFECTS
MOTION
ELECTRIC CURRENT
LIGHT
FORCE AND PRESSURE
SOUND & ASTRONOMY

CHEMISTRY

CHEMICAL EFFECTS OF ELECTRIC CURRENT
METALS AND NON-METALS
COMBUSTION AND FLAME
COAL AND PETROLEUM
SYNTHETIC FIBRES AND PLASTICS

BIOLOGY

PLANT NUTRITION
HUMAN NUTRITION
TRANSPORT IN ANIMALS
REPRODUCTION IN PLANTS
RESPIRATION
THE FUNDAMENTAL UNIT OF LIFE
INTERDEPENDENCE OF PLANTS AND ANIMALS

SYLLABUS FOR OLYMPIAD (GRADE 9)

PHYSICS

LIGHT
SOUND (WAVES)
MECHANICS (MOTION, WORK, ENERGY, POWER)
FORCE AND LAWS OF MOTION
GRAVITATION

CHEMISTRY

MATTER
STRUCTURE OF ATOM
ACIDS, BASES, AND SALTS
ATOMS AND MOLECULES
ATOMIC MODELS

BIOLOGY

CELL ORGANELLES- FUNCTIONS AND STRUCTURE
AGRICULTURAL PRACTICES
ACUTE AND CHRONIC DISEASES
BIOGEOCHEMICAL CYCLES
THE ROLE OF THE ATMOSPHERE IN CLIMATE CONTROL
PLANT TISSUES (MERISTEMATIC AND PERMANENT TISSUES)

SYLLABUS FOR OLYMPIAD (GRADE 10)

PHYSICS

FORCE AND MOTION
ELECTRICITY & LIGHT
SOLID, LIQUID AND GAS
MAGNETISM
RADIOACTIVITY.
ASTROPHYSICS

CHEMISTRY

CHEMICAL EQUATIONS AND TYPES OF REACTIONS
PERIODIC TABLE AND PERIODICITY
METALS, NON-METALS, BONDING IN THEIR COMPOUNDS
INTRODUCTION TO ORGANIC COMPOUNDS- FUNCTIONAL GROUPS AND THEIR REACTIONS
ACIDS, BASES AND SALTS

BIOLOGY

LIFE PROCESSES
HORMONES IN ANIMALS AND PLANTS
REPRODUCTION
GENETICS & OUR ENVIRONMENT

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