



**THE  
AMERICAN  
ACADEMY  
NICOSIA**  
PRIVATE SCHOOL  
EST. 1922

# **The American Academy Nicosia**

## **Syllabus for Entrance Examinations**

**Serial number 202212**

### **Mathematics**

**Year 7**

## **SYLLABUS FOR YEAR 7 ENTRANCE EXAM-NO CALCULATORS ARE ALLOWED**

- Calculations using the four operators +, −, ×, ÷ on positive integers and decimals.
- Order of operations
- Place value and rounding whole numbers.
- Simple fractions, mixed numbers, percentages, and decimals including their use in real situations.
- Finding a fraction or percentage of a given quantity.
- Squares, factors, multiples, divisibility, and primes.
- Simple ideas of proportion and ratio
- Number patterns and sequences
- Angle measurement: - acute, obtuse, and reflex angles - parallel and perpendicular lines - angle sum of a triangle
- Coordinates
- Extracting information from pie charts and bar charts.
- Simple probability
- Perimeter and area of simple shapes including square, rectangle, triangle.
- Units of measurement and the relation between units. The following metric units will be used: Length: millimeter (mm), centimeter (cm), metre (m), kilometer (km) with corresponding units for area and volume. Mass: gram (g), kilogram (kg) Capacity – millilitre (ml), litre (l).
- Concept of negative numbers.
- 12-hour and 24-hour time.