The American Academy Nicosia

Syllabus for Entrance Examinations

Mathematics

Year 7
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 – milliliter (ml), litre (l)

Concept of negative numbers

12-hour and 24-hour time