

2021 Syllabus

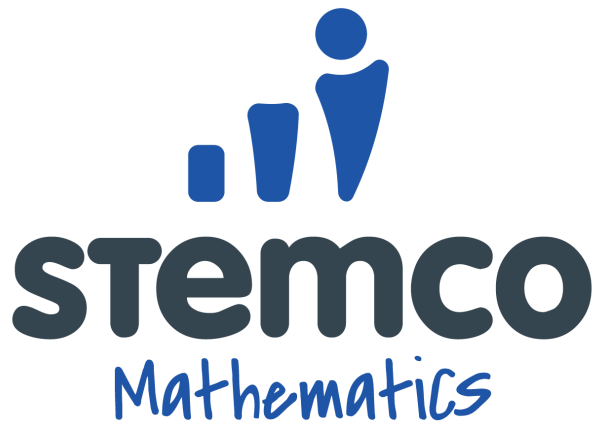
Objective: to provide a general idea about the concepts that may appear in the competition

Scope: the syllabus covers the major concepts that are critical to holistic understanding of Mathematics.

What it is not: the syllabus is not meant to be exhaustive or detailed.

Primary Junior (Grades 1 - 3); **Primary Senior** (Grades 4 - 6)

| Areas | Concepts |
|----------------------|---|
| Data Handling | Information; Set; Order; Pattern; Chance; Graph; Representation; Logic |
| Measurement | Probability; Estimation; Comparison; Unit of measurement; Accuracy; Precision; Instrument; Ratio; Rate |
| Shape and Space | Dimension; Perspective; Angle; Perimeter; Area; Volume; Symmetry; Transformation; Model; Rotation; Position; Scale; Direction |
| Pattern and Function | Sequence; Relationship; Function; Operation; Representation; Symbol; Exponent; Root |
| Numbers | Part-Whole; Ratio; Fraction; Decimal; Percent; Strategy; Base 10; Model |
| Others | ... |



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Secondary Junior (Grades 7 - 9); **Secondary Senior** (Grades 10 - 12)

| Areas | Concepts |
|--------------------------|--|
| Numbers | Sequences; Series; Patterns; Divisibility; Digits |
| Algebra | Equations; Inequalities; Coordinates; Vectors; Functions; Models |
| Geometry | Shapes; Dimensions; Similarity; Mensuration; Trigonometry; Maps; Symmetry; Coordinates; Vectors |
| Statistics & Probability | Combinatorics; Probability; Data; Graphs; Accuracy; Precision |
| Others | ... |