

FENIX BRAIN ACADEMY – FENFEST 2020

MATH COMPETITION – SYLLABUS

GRADE 3

- Four operations – Addition, Subtraction, Multiplication, Division.
- Fundamental of Numbers. Four digit numbers, Place value and Face value, Expanded and short form, Comparison of numbers, Even and odd numbers, Rounding off numbers, Roman Numbers.
- Data Handling – Data, Pictograph and Tally marks.
- Measurements - Length, Weight, Capacity.
- Geometry – Point, Line segment, Ray, Open and closed Figures, 2D and 3D Shapes.
- Logical Reasoning – Patterns, Alphabet test, coding – Decoding, Number puzzles.

GRADE 4

- Fundamentals on numbers(up to 7-Digit numbers)Indian place value chart, Expanded and standard Form, Comparing Large Numbers, International Place Value Chart, Rounding off Numbers, Roman Numeral System
- Four Operations – Additions, Subtraction, Multiplication, Division, BODMAS,
- HCF & LCM – Divisibility Rules, Multiples, Factors, Prime & Composite Numbers, HCF & LCM
- Data Handling – Pictograph, Tally Marks, Bar Graphs
- Geometry – Point, Line, Line Segment, Ray, 2D & 3D shapes, Polygons, Circles
- Fractions – Types of Fractions, Comparison of Fractions, Addition and Subtraction of Fractions
- Logical Reasoning – Patterns, Alphabet test, Coding-Decoding, Embedded Figures, Number Puzzles.

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MATH COMPETITION – SYLLABUS

GRADE 5

- Fundamentals on Numbers – Number systems (Indian and International), Comparison of Numbers, Rounding off Numbers, Roman Numerals
- Four Operations – Addition, Subtraction, Multiplication, Division, Unitary Method, BODMAS
- HCF & LCM – Divisibility Rules, Multiples, Factors, HCF & LCM
- Fractions – Types of Fractions, Comparison of Fraction, Four Operations in Fractions
- Decimals – Representing Decimals, Decimals Conversion, Types of Decimals, Comparing Decimals, Four Operations of Decimals, Applications of Decimals
- Geometry – Point, Line, Line Segment, Ray, Types of Lines, Open and Closed figures, 2D shapes, Circle, Angles, Polygons, 3D shapes
- Data Handling – Pictograph, Tally Marks, Bar Graphs and Pie-Charts
- Logical Reasoning – Patterns, Alphabet test, Coding- Decoding, Water/ Mirror images, Ranking test, Number Puzzles
- Perimeter and Area - Perimeter of square , Rectangle , Triangle , 2D shapes - Area of Square and Rectangle

GRADE 6

- Multiply and divide
- Smaller lengths and Bigger lengths
- Angles in Surroundings
- Playing with shapes
- Fractions
- Factors and Multiples
- Knowing our Numbers
- Whole Numbers
- Playing with Numbers
- Basic Geometrical Ideas

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GRADE 7

- Playing with Numbers
- Basic Geometrical Ideas
- Data handling
- Introduction to Algebra
- Perimeter and Area
- Ratio and Proportions
- Integers
- Fractions, Decimals and Rational Numbers
- Simple Equations
- Lines and Angles

GRADE 8

- Lines and Angles
- Triangle and its Properties
- Ratio Applications
- Data Handling
- Algebraic Expressions
- Area and Perimeter
- Rational Numbers
- Linear Equations in one Variable
- Exponents and Power
- Quadrilaterals