

REAL SCHOOL

MASTERMIND BOOTCAMP



Online. Real-Time. Futuristic

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About the program

The Mastermind Bootcamp is an overall development program where the student gets to expand the scope of their thinking abilities. In this program, the students are exposed to a rich and challenging mix of mathematical, logical, spatial problems where they get to realize the unparalleled beauty of mathematical reasoning. Not only does this program aim to improve the students overall affinity for mathematics, but also allows them to learn about the building blocks of any cognitive process- Attention and Memory and thereby making them better at the art of learning itself. We know that such a process could be cerebrally challenging at times so to ease out and let the muscle between the shoulders relax and run free, the program also includes a mix of fun creativity building exercises.

What do we cover?

Sr. No	Modules
1	Attention and focus building
2	Mnemonics and Memory techniques
3	Creative visualization
4	Number Sense and numerical reasoning
5	Spatial Sense, visual reasoning, geometry for measurements
6	Deduction and Logical reasoning
7	Flowcharts and Algorithmic thinking
8	Magical mathematics
9	Problem Solving techniques

Module 1: Attention and focus building

- Sustained Attention (Attention span)
- Selective Attention (Focus and concentration)
- Divided Attention (Multitasking)
- Effective learning techniques-(Interleaving, Elaboration, Pomodoro etc)

Module 2: Mnemonics and Memory techniques

- How does our Memory work?
- Method of Loci (Memory palace)
- Acronyms
- Acrostics
- Chunking information
- Spaced repetition technique and revision routines
- Effective encoding of information

Module 3: Creative visualization

- SCAMPER process
- Alternate use test
- 30 Circles
- Free writing

Module 4: Number Sense and numerical reasoning

- Foundation of numbers, their origins and importance
- Origins of Number systems and Place value
- Magnitude of whole numbers
- Ball park estimations through Rounding, Percents, Fractions, Ratios and proportions

Module 5: Spatial Sense and visual reasoning

- Direction sense and spatial relationships
- Properties of geometric figures
- Geometric transformations and basics of symmetry
- Coordinate geometry
- Geometry of measurement
- Geometric modeling

Module 6: Deduction and Logical reasoning

- Logic based games- Kakuro, Sudoku and Nonograms
- Non-verbal classifications and sorting information
- Statements and assumptions
- Cause and effect relationships- Critical thinking
- Cryptography
- Number series and patterns

Module 7: Flowcharts and Algorithmic thinking

- Basics of algorithms and flowcharts
- Sequences, Looping, Conditionals and decomposition
- Problems in Exhaustive search algorithms
- Problems in Backtracking and more.

Module 8: Magical mathematics

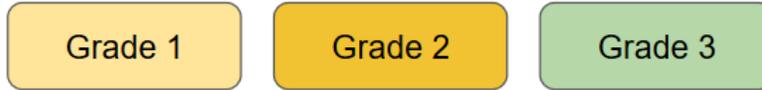
- Mathematics behind Impossible magic tricks
- Mental arithmetics
- Fractals in Nature and real world
- Infinity and its types
- Lives and tales of mathematical geniuses

Module 9: Problem Solving techniques

Structure of problems and the problem solving process
Formulating hypotheses and hypothesis testing
Conjectures, proofs and counterexamples
Divide and conquer technique
Root cause analysis

Packages offered

LEVEL 1 Express



Duration: **15 Hours**

Months: **3 Months**

Modules covered: **1,2,3,4,5,6**

LEVEL 1 Ultimate



Duration: **60 hours**

Months: **9 Months**

Modules covered: **1,2,3,4,5,6,7,8,9**

LEVEL 2 Express

Grade 4

Grade 5

Grade 6

Duration: **15 Hours**

Months: **3 Months**

Modules covered: **1,2,3,4,5,6**

LEVEL 2 Ultimate

Grade 4

Grade 5

Grade 6

Duration: **60 Hours**

Months: **9 Months**

Modules covered: **1,2,3,4,5,6,7,8,9**

Real School Philosophy

Real School, a product of uFaber Edutech Pvt. Ltd. is an ecosystem that transforms a young curious mind into a highly-skilled problem solver. At Real School, we've turned everything on its head. So, instead of the student going to school, the school comes home! Instead of a compartmentalised subject-oriented curriculum, we use dynamic project-based learning curated to develop skills. Instead of the stress of examinations, our students revel in the joy of discovery and creation! They learn not from books but from experiences, Their knowledge is not graded based on an answer paper but on how they have applied this knowledge to solve a real-world problem.