

GUIDE TO EYELLEVEL MATHS



VIATHS



Why is mastery important in maths?

In Arithmetic operations, concepts are linked and extended from one another (Systematicity). Therefore, step by step mastery is a must.

Grade 1-3

- add - subtract
- addition - subtraction

Grade 3-6

- division - fraction

- multiplication of fraction

- equation

7 + 5 = 12

$$\begin{array}{r}
36 \\
\times 9 \\
\hline
54 \\
27 \\
\hline
324
\end{array}$$

- multiplication

$$\begin{array}{r}
 9 \\
 36 \overline{\smash{\big)}\ 355} \\
 \underline{324} \\
 \hline
 31
\end{array}$$

$$3\frac{5}{9} = \frac{32}{9}$$
$$3 \times 9$$
$$= 27 + 5$$
$$= 32$$

Mixed number > Improper fraction

$$3\frac{5}{9} \times 6\frac{3}{16}$$

$$= \frac{3^{2}}{\cancel{9}} \times \frac{\cancel{9}^{11}}{\cancel{1}}$$

$$= 22$$

$$x \times \left(3\frac{5}{9}\right) = 8$$

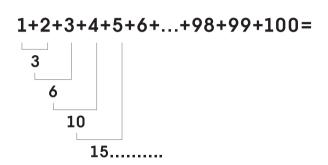
$$x = 8 \div 3\frac{5}{9}$$

$$x = 8 \div \frac{32}{9}$$

$$x = 8 \times \frac{9}{32}$$

$$x = 2\frac{1}{4}$$

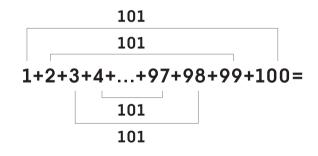
Why is mathematical thinking important in maths?





What is mathematical thinking?

Mathematical thinking is the ability to analyse, understand and solve problems logically. It is a necessary skill to make a strategy (formula) for solving mathematical problems.





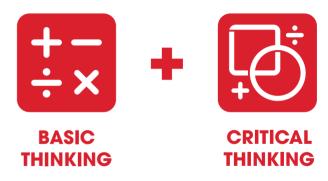
Eye Level Maths is learning material that develops mathematical thinking.

CHARACTERISTICS

Why Eye Level Maths?

The four characteristics of Eye Level Maths can help you experience the learning effects of mathematics.

- 1. Develops mathematical problem-solving skills through BTM & CTM
- 2. Builds a solid foundation in 5 fundamental areas of maths
- 3. Masters each math concept through a small step approach
- 4. Helps students learn effectively with various tools and well-designed booklets



What is Eye Level Maths program?

Eye Level Maths enables students to cultivate problem-solving capabilities by improving mathematical ability.

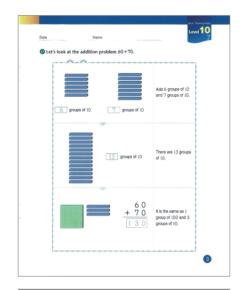
| | BASIC THINKING MATHS | CRITICAL THINKING MATHS |
|--------------------|---|---|
| Learning Goal | Mastery of Arithmetic Skill | Advance Application and Problem Solving |
| Level | 32 Levels | 32 Levels |
| Learning | • Numbers | Patterns and Relationships |
| Contents | Arithmetic | Measurement |
| | • Equations | Geometry |
| | Measurement | Reasoning |
| | Variables and Equations | Problem Solving |
| | Relationships and Functions | Spatial Sense |
| | Probability and Statistics | |
| | • Geometry | |
| Learning Method | Online & Offline | Offline |

BTM OVERVIEW

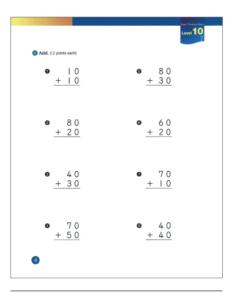
Learning Approach

Students can master every topic with systematically composed four-step booklets.

Understanding the Concept



Practice



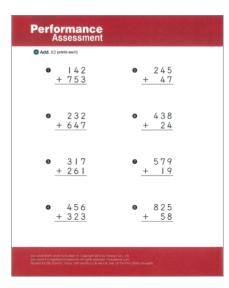
Step 2

Problem-solving (Word Problems)



Step 3

Evaluation



Step 4

Students can study effectively with systematically composed online contents.

Study

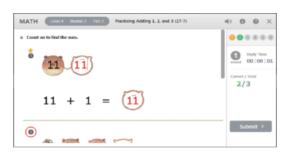
- Main Part
- Automatic Scoring

Result Management

- Report per Each Part
- My Correction Note

Motivation

- Arithmetic Game
- Point and Ranking













CTM OVERVIEW

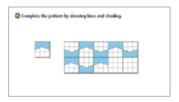
EYE LEVEL MATHS

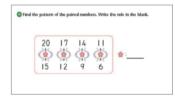
Students can cultivate critical thinking & problem-solving ability through 5 parts of CTM.

Patterns & Relationships









Repeating Pattern

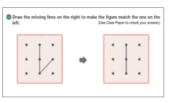
Increasing Pattern

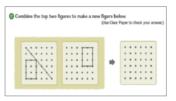
Line, Shape, Domino

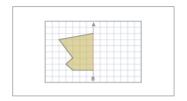
Number Pattern

Learn the basis for function with systematic and diverse patterns.

Geometry









Drawing Figures

Combining Shapes

Symmetry

Rotation of Figures

Develop spatial sense and intuitional thinking(plane surface->solid) by manipulating, observing and practising with teaching tools.

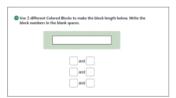
CTM OVERVIEW

EYE LEVEL MATHS

Measurement



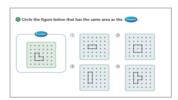
Comparison (Length)



Conserving Lengths



Comparison (Areas)



Conserving Areas



Comparison (Volumes)



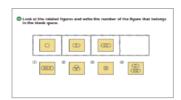
Conserving Volumes

Understand the concept of comparison, conservation and measurement through intuitional comparison of diverse quantities.

Reasoning



Classifying



Analogy



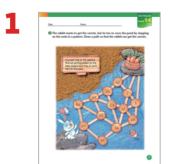
Analysis and Process

Improve analytical and comprehension skills with grouping and analogy which leads to mathematical thinking.

CTM OVERVIEW

EYE LEVEL MATHS

Problem Solving



Pattern Recognition



Data Analysis

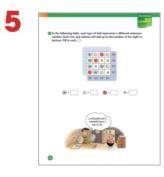
6



Alternative Methods



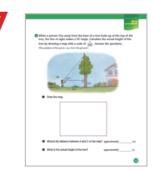
Drawing Diagrams



Deduction



Reverse Calculation



Trial and Error



Tree Diagram

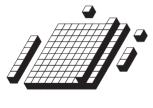
8 STRATEGIES FOR PROBLEM SOLVING

Develop students' capabilities to solve any type of problem using eight types of problem-solving strategies.

Teaching Tools

Students experience practical applications in mathematics by solving applied mathematical problems using the Eye Level Teaching Tools.

Use for Level: 1~23



Numerical Figures



Blocks and Shapes



Clear Paper



Colored Blocks

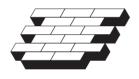


Mirrors

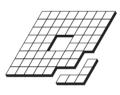


Wooden Blocks

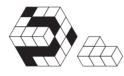
Use for Level: 24~32



Thinking Bricks



Thinking Pentos



Thinking Cubes

ONLINE LEARNING STEPS

STEP 1

Go to "Study.myeyelevel.com"

Both student and parent must sign up first!

Parents must sign in as parent to view the student's learning status.



STEP 2

Online Practice

Online exercises are graded immediately. Students can work on multiple times what they have missed.



STEP 3

Checking Learning Result

After checking the result at Report, students can solve the problems they got wrong at My Correction Note.

