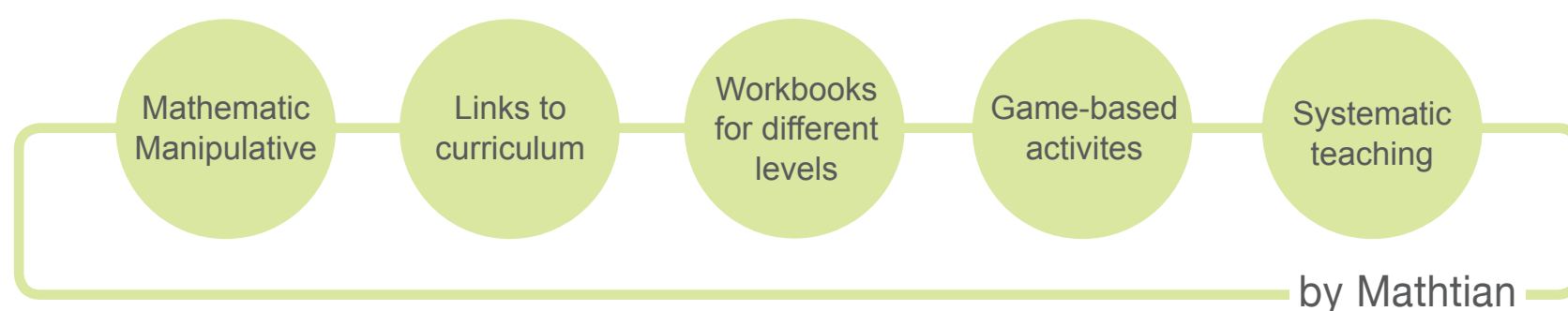


Study the **fun** way and  
understand **precisely.**



**PlayFACTO** is a new type of manipulative learning program that enhances mathematical learning through fun manipulatives in connection with a traditional elementary mathematics curriculum.



Innovative and creative people! MATHTIAN mathematics lab

MATHTIAN is a publishing company that specializes in mathematics. Its main focus is on educational manipulatives, activities, games, discussion, and problems that develop creative thinking skills and lead to self-directed learning.

The logo for PlayFACTO features the word "Play" in a dark blue, rounded font, followed by "FACTO" in a bold, black, sans-serif font. The letters are stylized with small, colorful geometric shapes (red, green, blue, and orange) integrated into the design, particularly around the 'P', 'l', 'y', 'F', and 'O'.



## Number and operations

### Number Battle

Enhance number recognition through fun activities!

Understand the base-10 numeral system by placing number chips in different positions, and enhance number recognition by comparing and estimating the chips. Through activities that involve completing the correct expression, you can master the concept and understand the relationships among the four fundamental arithmetic operations: addition, subtraction, multiplication, and division.

- Target age : 5-12
- Materials : Activity boards, Number chips, Operation chips, Mission cards
- Games : Blind number, Number memory, Make 10, Four-Fours  
Create horizontal expression, Winning-Digit game and more.



### Hund. Board

Skip, count, and learn the sequence of numbers!

Through the process of finding patterns of numbers up to 100, you can enhance number recognition and learn numbers and number sequences up to 100.

- Target age : 5-12
- Materials : 50 boards, Number charts, Hoppin Numbers activity board, Dice Train magnets, Activity sheets, Mission cards, Colored chips
- Games : Catching a thief, Building a number tower, Big or Small, Completing 100 board, Hopping Numbers, Train explosion game, A magic square and more.



### Arith. Match

Let's test your knowledge of numeracy through fun games!

This game is designed to foster players' competitiveness so that they will voluntarily participate in learning mental calculation and numeracy skills.

- Target age : 5-12
- Materials : Activity board, Mini boards, Number chips, Dice, Number cards, Game pieces
- Games : Making an inverted pyramid, Addition/Multiplication battle, Square Square, 3-Dice addition/Multiplication bingo, Target 36, 9 Up 27 Down, Completing cross expression and more.



## Plane figures

### Puzzles

Let's dive into some fun and exciting puzzles!

You can create endless objects with pieces of various shapes without possessing a sophisticated knowledge of math by engaging in continuous fitting activities, which help to develop a rich imagination as well as spatial perception. You also can enhance your thinking and reasoning skills and aesthetic perception through a repeated process of constructing new shapes.

- Target age : 5-12
- Materials : Activity boards, Pentomino, Tangram, Puzzle cards, Container
- Games : Distinctive puzzle, Polygon battle, Speed rectangles and more.



### Mosaic Blocks

Make fun and creative shapes with colorful mosaic blocks!

You can enhance your sense of space by observing plane figures from different angles and recognizing changes in shape and size. Creating provided shapes in many different ways helps to develop spatial reasoning and spatial perception.

- Target age : 5-12
- Materials : Activity board, Hexagon puzzles, Pattern blocks, Hexiamond set, Tetrahex set, Tetrabolo set, Mission cards
- Games : Making hexagon shapes, Block-Nim, Connecting tetrabolo and more.



## Solid figures

### Cube Tower

Enhance your sense of space through fun building block activities!

You can increase your intuition and sense of space by building with blocks and observing and understanding the shape. You can play more than ten different games using building blocks and three types of mission cards.

- Target age : 5-12
- Materials : Activity board, Building blocks, Cube puzzle, Square tiles, Transparent cards, Mission cards
- Games : Twin shapes, Top views, Different Views, Guess building blocks, Soma cube puzzles and more.



### Geometric Solids

Assemble and disassemble solid figures!

Through the process of assembling small pieces of solid figures to create various new, shapes of solid figures, you can develop your reasoning skills and sense of space.

- Target age : 5-12
- Materials : Activity board, Solid figure A, B, C, D, Mission cards
- Games : Find shapes in the picture, Making identical figures without looking, Front view, Different views and more.



## Patterns, Classification, Measurement

### True-False

True or False? Find the hidden condition through prediction and confirmation!

True-False is a game where you guess the condition of the mission cards after observing the characteristics of the sorted chips. You can develop your intuition, thinking ability, and logical reasoning ability.

- Target age : 5-12
- Materials : Activity boards, Mission cards and chips, Number chips, Pentomino chips, Button cards, Polygon cards
- Games : Finding friends, True! False!, True-False mission, Secret chip, Sum of dice, Connecting attributes, Same or straight and more.

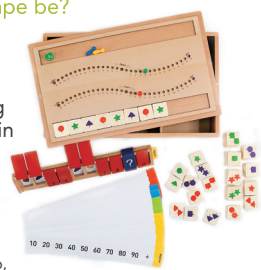


### Pattern Finder

What should the next shape be? Discover the fun and amazing rules!

Build your critical thinking skills and logical reasoning skills by discovering rules in various patterns.

- Target age : 5-12
- Materials : Activity board, Pattern finder, 1 chip, Pattern cards, Pattern chips, Decahedron die
- Games : Making patterns, Finding appropriate shapes, Guessing the answer by throwing the die, Pattern bingo, Where? What? and more.



### Measurement Kit

Various measuring tools are combined in an all-in-one measurement kit!

The kit helps you to learn measurements and to compare length, width, area, weight, and volume and will improve your problem-solving skills.

- Target age : 5-12
- Materials : Activity board, Cuisenaire rods & cards, Year-round calendar & cards, Demonstration clocks, Math balance, weights
- Games : Comparison of length/width, Clock bingo, Cuisenaire Nim-game, Ruler without the gradation and more.



## Workbook Features



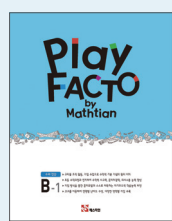
Ages 5~6



Ages 7~8



Ages 8~9



Ages 9~10



Ages 11~12

#### 1. The workbooks meet the needs of all students.

PlayFACTO is structured to meet the needs of students aged(5~12) to help them learn mathematics systemically by separating areas of study into five categories: number and operations, figures, classifications, patterns, and measurement.

#### 2. The main activities are ideal for understanding the fundamentals of mathematics.

The primary activities are perfect for understanding the principles and fundamentals of mathematics, helping you to learn them well while having fun and achieving unit objectives.

#### 3. Preparatory activities come before the main activities.

Preparatory activities are designed to help you learn the fundamentals and concepts of math that should be learned prior to participating in the main activities. You progress step by step and can also selectively choose the activities for your level.

#### 4. There is harmony between individual and group activities.

Manipulative activities are divided into individual activities, which help children engage in self-directed learning and group activities that lead to cooperative and competitive learning.



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