

# Learning Path for Grade 4

## OUR PHILOSOPHY

**LOVE MATH AND MASTER IT!**

With cutting edge courses to make Math simple and fun.



Mathematics is one of the most important subjects that children have to learn, as it plays one of the biggest roles in their lives and education. No matter what field of work they decide to enter, some form of Mathematics is involved.

**“Without Mathematics, there is nothing you can do. Everything around you is Mathematics, everything around you is numbers.” - Shakuntala Devi**

Middle school is a transformative time for students. It is a crucial point in their development to help prepare them for high school by establishing an independent thinking skills strategy and enable practical learning through exposure to mental math and reasoning.

‘Fear for Math’ has been identified as one of the biggest problems faced by children in learning Mathematics.

**Our PurpleMath curriculum has been developed to ensure every child can achieve excellence in Math by falling in ‘love with Math’.** All lessons and activities are designed to spark curiosity and excitement to help nurture confidence in Math. Children can experience a sense of awe and wonder as they solve a problem for the first time, discover different solutions and make links between different areas of Math. It provides them with a deep understanding of the subject through a concrete, pictorial and abstract approach.



# Learning Path for Grade 4

## EXPLORER 19 SESSIONS



## PROFICIENT 50 SESSIONS



## MASTER 100 SESSIONS

### Concepts Covered

Number Operations (Place Value + Addition + Subtraction + Multiplication)

### What Will Your Child Do?

- Place values and basic number sense
- Addition of 5-digit numbers and beyond
- Subtraction of 5-digit numbers and beyond
- Times tables (up to 12)
- Multiplication of 1-digit numbers with 2-digit, 3-digit and 4-digit numbers
- Multiplication of 2-digit numbers with 2-digit numbers
- Distributive property
- Word problems inclusive of all three above operations

### Concepts Covered

**Explorer +** Division + Mixed Order of operations + Factors & Multiples + Divisibility rules + Rounding & Estimation

### What Will Your Child Do?

- Basics of Division
- Dividing 2-digit, 3-digit & 4-digit dividends by 1-digit & 2-digit divisors
- With and without remainder division problems
- Repeated Addition in Arrays
- Mixed operation - One & two step word problems
- Order of operations using the PMDAS rule
- Factors and Multiples
- Divisibility rules
- Rounding and estimation of whole numbers up to billions

### Concepts Covered

**Proficient +** Fractions and Decimals + Geometry + Measurement + Data Handling

### What Will Your Child Do?

- Fractions - basics and terms
- Halves & Quarters
- Types of fractions : Equivalent & Simplifying
- Fractions using number line & Benchmark
- Introduction to decimals & Relating fractions
- Customary units, Time, Calendar, Monetary system, Volume, Distance - Measurement
- Lines and Angles
- Polygons and their classification
- Area and perimeter & Symmetry
- Introduction to Data handling
- Frequency and Graphs
- Venn diagrams

### Benefits



- 20 Practice Sheets (Concept+ Mental Math+ Reasoning)
- 20+ Comprehensive Assessments
- 1 Summative Assessment
- Progress Report

### Benefits



- 50 Practice Sheets (Concept+ Mental Math+ Reasoning)
- 50+ Comprehensive Assessments
- 3 Summative Assessment
- Progress Report

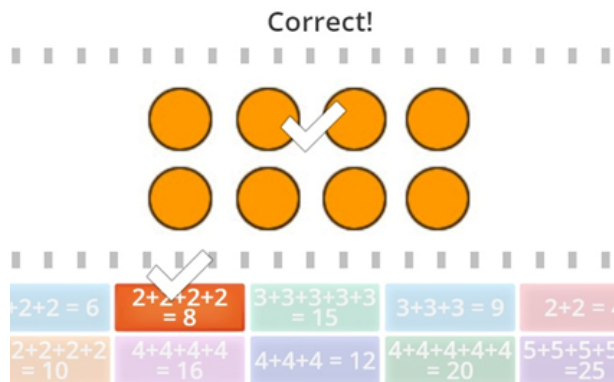
### Benefits



- 120 Practice Sheets (Concept+ Mental Math+ Reasoning)
- 100+ Comprehensive Assessments
- 6 Summative Assessment Progress Report
- Mastery in Grade 4 Mathematics Certificate

## PurpleMath Projects

Students will create various projects on each concept on interactive and visual platforms.  
Listed below are some such projects:

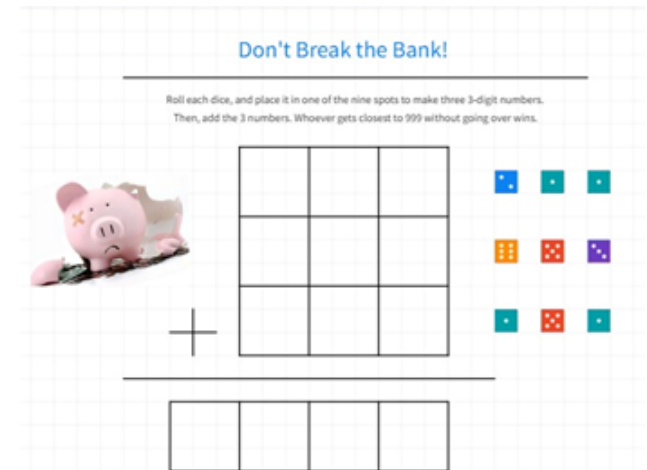


Identify the form

Place 734 123 456 in the place value chart

MILLIONS			THOUSAND			ONES		
HUNDREDS	TENS	ONES	HUNDREDS	TENS	ONES	HUNDREDS	TENS	ONES
7	3	4	1	2	3	4	5	6

Place Value Chart



Roll the Dice!