



Grade 4

Hello ! Young Learners

Get ready to fall in love with Math

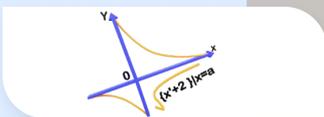
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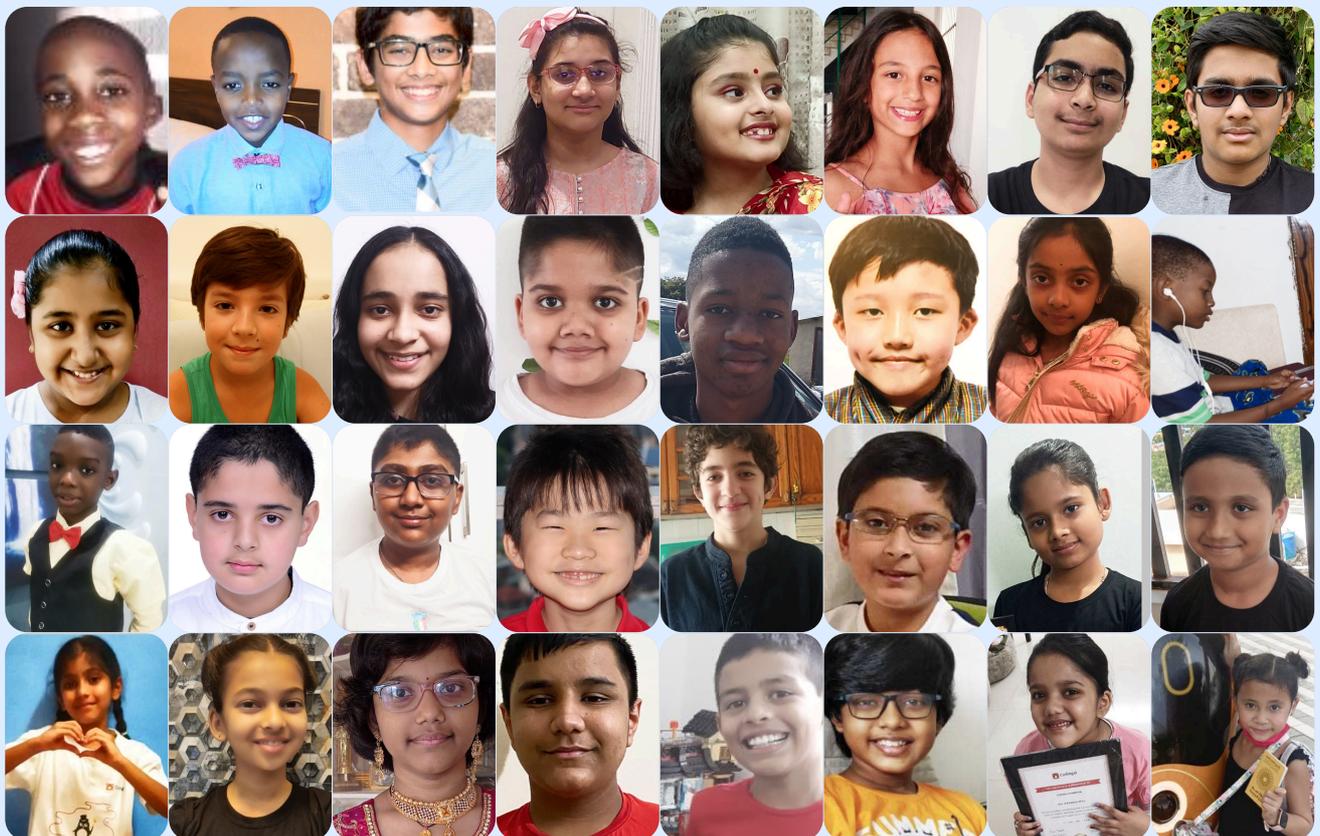
About Codingal

Codingal offers online math classes for K-12 students, where kids and teens learn math concepts through live, interactive sessions with expert instructors. Our mission is to build the world's best and most loved online math learning platform for kids and teens, blending traditional teaching with innovative techniques and tools.

All our instructors have strong backgrounds in math and engineering, and they are rigorously vetted and trained. Each student receives a personalized learning path with individual attention in 1:1 private classes. Students learn math through real-life applications, hands-on problem-solving, and interactive activities that make learning fun and exciting.

Kids find Codingal's math classes highly engaging and inspiring. They have rated teachers at 4.9 out of 5. Curriculum content is rated at 4.8 out of 5.

Codingal is on a mission to inspire kids to fall in love with math and provide the right education that empowers them to solve real-world problems, think critically, and build a strong foundation for the future as innovators, engineers, scientists, and entrepreneurs.





Key Learning

Number Sense & Place Value

Develop a strong understanding of place value up to the millions and decimals to the hundredths. Write, expand, compare, and order multi-digit numbers using number lines and solve real-world problems involving place value.

Operations & Estimation

Round whole numbers to the nearest 10, 100, and 1,000. Perform addition, subtraction, multiplication, and division with multi-digit numbers and decimals. Apply estimation and rounding strategies in real-life contexts.

Factors, Multiples & Divisibility

Understand the order of operations (PEMDAS) and apply it to solve expressions correctly. Identify factors and multiples, differentiate between prime and composite numbers, and apply divisibility rules for numbers 2 to 12.

Fractions & Decimals

Develop a foundational understanding of fractions, including representation, comparison, and operations with like denominators. Convert between fractions and decimals and apply decimal operations in real-world contexts.

Measurement & Time

Convert between units of length, weight, volume, and perimeter. Read analog and digital clocks, calculate elapsed time, and perform temperature conversions between Celsius and Fahrenheit.

Geometry & Coordinate Plane

Classify and analyze 2D and 3D shapes, calculate area and perimeter, and explore symmetry and tessellations. Plot points, identify ordered pairs, and draw shapes on the coordinate plane.

Patterns, Probability & Data

Identify, generate, and analyze number patterns. Apply probability concepts to predict outcomes and interpret data using graphs and measures of central tendency.

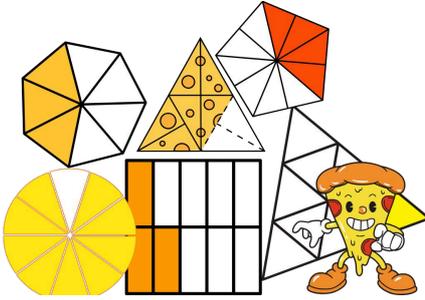


Math Curriculum (Grade 4)

Topics	Module	Lesson Titles
01. Numbers and Operations 	Understanding Place Value and Multi-digit Numbers	Introduction to Place Value
		Writing and Expanding Multi digit number
	Comparing Numbers Based on Place Value	Comparing and Ordering Numbers
		Real-world Applications of Place Value
	Rounding	Rounding Numbers
		Practical Applications of Rounding
		Test - The Expedition Headquarters
	Operations on Multidigit Numbers	Addition of Multi-Digit Numbers
		Subtraction of Multi-Digit Numbers
		Basics of Multiplication
		Word Problems in Multiplication
		Basics of Division
		Word Problems in Division
	Introduction to PEMDAS (Simplified Version)	Mastering the Basics of PEMDAS
		Test - The Supply Route Mission
	Factors and Multiples	Understanding Factors
		Understanding Multiples
		Prime and Composite Numbers
		Applying Factors and Multiples
	Divisibility	Introduction to Divisibility Rules (2 to 5)
Divisibility by 6, 7, and 8		
Divisibility by 9, 10, 11, and 12		
Solving Word Problems with Divisibility		
Multistep word problems		
	Test - The City Systems Challenge	

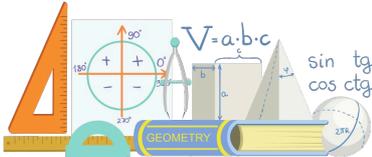
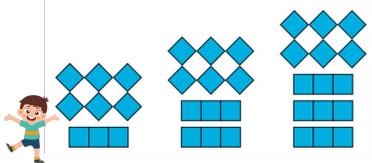


Math Curriculum (Grade 4)

Topics	Module	Lesson Titles		
<p>02. Fractions and Decimals</p> 	Introduction to Fractions	Introduction to Fractions Comparing and Ordering Fractions Simplifying and Generating Equivalent Fractions Adding Fractions with Like Denominators Subtracting Fractions with Like Denominators Introducing Simple Word Problems Test - The River & Resource Study		
	Introduction to Decimals	Understanding Decimal Place Value Writing Decimals in Different Forms Comparing Decimal Numbers Rounding Decimals to the Nearest Whole Number or Tenth Converting Fractions to Decimals Test - The Innovation Lab Trials		
	<p>03. Measurement</p> 	Units of Measurement, Conversion of Units	Understanding Units of Measurement Measuring Lengths Solving Word Problems with Measurements Exploring Perimeter	
		Weight	Measuring Weight in Kilograms and Grams Measuring Volume in Liters and Milliliters	
		Time	Reading Clocks (Analog and Digital) Calculating Elapsed Time 12-Hour and 24-Hour Time Format Test - The Traffic & Time Control Center	
			Temperature	Understanding Temperature in Celsius and Fahrenheit Temperature in Real-World Contexts



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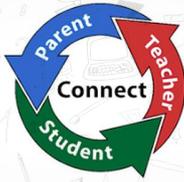
Topics	Module	Lesson Titles	
<p>04. Geometry</p> 	<p>Properties and Symmetry of 2D Shapes</p>	Introduction to Geometry	
		Introduction to Basic Shapes	
		Perimeter of 2D Shapes	
		Properties of 2D Shapes	
		Symmetry in 2D Shapes	
	<p>Understanding and Measuring Area</p>	Understanding Area and Units of Measurement	
		Area of Irregular Shapes	
			Test - The Global Exchange Station
	<p>3D Shapes and Properties</p>	Understanding 3D Shapes and Solids	
		Properties of 3D Shapes	
		<p>Symmetry and Tessellation</p>	Symmetry in Shapes
	Tessellation and Patterns		
	<p>Introduction to the Coordinate Plane</p>	Introduction to the Coordinate Plane	
		Identifying Ordered Pairs on the Coordinate Plane	
Plotting Points on the Coordinate Plane			
Drawing Shapes on the Coordinate Plane			
<p>05. Patterns and Operations</p> 	<p>Identifying and describing number patterns using a rule.</p>	Recognizing Number Patterns	
		Generating Number Patterns	
		Understanding Pattern Rules	
		Solving Word Problems with Patterns	
			Test - The Crisis Response Simulation

 **Math Curriculum (Grade 4)**

Topics	Module	Lesson Titles
<p>06. Probability</p> 	<p>Probability Games</p>	<p>Predicting Outcomes with Spinners</p> <p>Exploring Compound Probabilities</p> <p>Applying Probability in Decision-Making</p>
<p>07. Data and Statistics</p> 	<p>Data Collection and Organization</p>	<p>Collecting and Organizing Data</p> <p>Introduction to Bar Graphs</p> <p>Understanding Line Plots</p> <p>Measures of central Tendency : Mean,Mode and Range</p> <p>Measures of Central Tendency:Median and Range</p> <p>Analyzing Data and Graphs</p> <p>Test - The Summit of Solutions</p>



Top 10 benefits of learning at Codingal



1. Regular PTM

Great opportunity for parents and teachers to open two-way communication and to share insights and information for the holistic development of a child.



2. Regular doubt session

After every module solve all your queries in this personalized session. The toughest problems addressed – concepts revised and doubts cleared!



3. Engaging Quizzes & Worksheets

After each class, students get a quiz and worksheets to reinforce learning. These engaging, gamified exercises ensure their understanding is checked and make practice exciting.



4. Global Curriculum Expertise

Codingal offers courses tailored to major international and national curricula, including US Common Core (USCC), Australian Curriculum, IB, British Curriculum, IGCSE, CBSE, ICSE, and more. Our expert teachers specialize in these curricula.



5. Course Customization

Whether before starting or anytime during your child's learning journey, you can get a personalized course tailored to align with their school curriculum, exams, Olympiad preparation, or competition needs.



Top 10 benefits of learning at Codingal



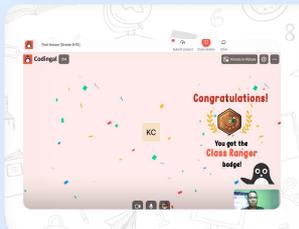
6. Live personalized classes

Understand concepts faster with personal attention from teachers. Learn coding from highly qualified teachers trained to make learning effective and impactful.



7. Lifetime Access to Class Recordings & Notes

Forgot what was taught in the last class? No worries. Watch the recorded class video anytime to refresh your memory. Get lifetime access to our exclusive learning content including interactive worksheets, videos, and other resources.



8. Gamified learning

Codingal makes learning fun with gamification. Students can take quizzes or complete projects to earn points, badges, and rewards.



9. Thrilling competitions

Regular competitions are conducted to encourage students to showcase their skills and develop their ideas.



10. Learning Certificates

Show the world what you can do with a certificate for every amazing skill you master.



Students love Codingal



Mohau Motang
South Africa

“ Math was tough for me but now it has become easy and interesting because of Codingal.



Mahira Khan
Sweden

“ My problem solving skills have improved drastically because of Codingal!



Alika Persaud
South Africa

“ Because of Codingal Math, I have massive improvement in my grades!



Zunaira Rizwan
Pakistan

“ Codingal has made me excellent in math



TrustScore **4.8** | **425** reviews



4.6 out of 5



5 out of 5



Codingal empowers kids to become innovators of the future

Why this curriculum?



Accredited by STEM.org

Rated 4.5 out of 5 by students and parents on Trustpilot

Based on BIDE (Broad, Inspiring, Deep and Efficient) model

Focus on STEAM (Science, Technology, Engineering, Arts, Math) subjects

Enhances cognitive, logical, and computational skills

Makes learning highly effective, interactive, and fun

Foundation of Codingal's curriculum

BLOOM

Bloom's Taxonomy is a standard guideline for K-12 content development, which includes 6 stages of learning: Remember, understand, apply, analyze, evaluate and create.

BIDE

The BIDE (Broad, Inspiring, Deep and Efficient) model has been developed by Codingal in-house to ensure that our curriculum caters to the unique learning style of every child.

STEAM

STEAM is an approach to learning that uses Science, Technology, Engineering, the Arts and Mathematics as access points for guiding student inquiry, dialogue, and critical thinking.



"Math is the foundation of all sciences and a universal language. It's the key to unlocking solutions in business and innovation."

- Elon Musk

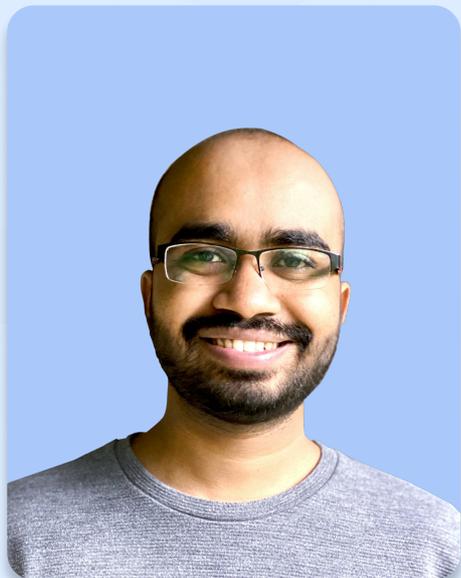


"Pure mathematics is, in its way, the poetry of logical ideas"

- Albert Einstein



A note from Codingal Founders



Mathematics is the language of possibility, unlocking the door to a world of innovation discovery, and endless potential. Our teachers open the doors for kids to explore the potential and beauty of Math.

Vivek Prakash

Co-founder & CEO
B.Tech & M.Tech, IIT Roorkee

 [LinkedIn](#)



Mathematics is not only about numbers, equations, and algorithms; it is about understanding and exploring the patterns that shape our world.

Satyam Baranwal

Co-founder & COO
B.Tech, IIT Dhanbad

 [LinkedIn](#)



Make your kid's math journey fun and inspiring

Is your child ready for the future?

Visit www.codingal.com

Try a free lesson!

Thank You

Built by alumni of

Google amazon



IIT Roorkee



IIT Dhanbad

In partnership with



IIT Bombay



IIT Guwahati



Hewlett Packard
Enterprise



BITS Pilani

Accredited by STEM.org



Backed by



Combinator



REBRIGHT
PARTNERS

Got questions?
Contact us
anytime.

Send us a message



support@codingal.com