



Codingal



Grade 5

Hello ! Young Learners

Get ready to fall in love with Math

Accredited by



Rate 4.6 out of 5



Backed by



$$\sum_{1=2}^2 x,y$$

$$\pi^2$$



$$y = x^2 + 2x + 2$$

$$\sqrt[2]{3}$$





About Codingal

Our Mission: To inspire kids to fall in love with Math

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.





Learning outcomes

Number Sense & Place Value

Understand place value up to billions, read and write numbers in standard and expanded forms, and compare multi-digit numbers and decimals. Convert between forms and apply place value in real-world problems.

Operations & Estimation

Perform addition, subtraction, multiplication, and division of multi-digit numbers using regrouping, estimation, and long division. Apply the order of operations (PEMDAS) and divisibility rules to solve numerical expressions.

Factors, Multiples & Fractions

Identify factors, multiples, prime and composite numbers. Solve problems involving the greatest common divisor (GCD) and least common multiple (LCM). Add, subtract, multiply, and divide fractions with visual models and real-world applications.

Decimals & Algebra

Place decimals on number lines, compare and order them, and perform operations with decimals. Convert between fractions and decimals and solve multi-step problems. Recognize, describe, and extend number patterns, and translate word problems into algebraic expressions.

Measurement & Geometry

Calculate area, perimeter, surface area, and volume. Convert between length, weight, and capacity units. Read clocks, solve time problems, classify 2D and 3D shapes, and apply transformations on the coordinate plane

Data & Probability

Analyze data using mean, median, mode, and range. Represent data through graphs and plots. Explore probability concepts, predict outcomes, and apply statistical reasoning to real-world problems.



Math Curriculum (Grade 4)

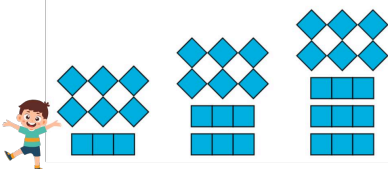

01. Numbers and Operations



Topics	Module	Lesson Titles
01. Numbers and Operations	Place Value: Understanding numbers up to 1,000,000	Introduction to Place Value
		Expanded Form and Standard Form
	Addition and Subtraction	Addition and Subtraction of Multi-Digit Numbers
	Multiplication and Division	Multiplication of Multi-Digit Numbers
		Division of Multi-Digit Numbers
	Expanded PEMDAS/ BODMAS/GEMDAS	PEMDAS with Decimals and Fractions
	Introduction to Factors and Multiples	Introduction to Factors and Multiples
	Methods for Finding LCM and GCD	Finding the Greatest Common Divisor (GCD)
		Finding the Least Common Multiple (LCM)
		Solving Word Problems Involving GCD and LCM
	Operation on Fractions	Operation of Fractions: Adding and Subtracting Unlike Terms (Part 1)
		Operation of Fractions: Adding and Subtracting Unlike Terms (Part 2)
		Word Problems (Fractions)
		Operations on Fractions: Multiplication
		Operations on Fractions: Division
		Word Problem (Fractions)
	Decimals on the Number Line	Decimals on the Number Line






Math Curriculum (Grade 5)

Topics	Module	Lesson Titles
	Operations with Decimals	Adding Decimals
		Subtracting Decimals
		Multiplying Decimals by Whole Numbers
		Multiplying Decimals by Decimals
		Dividing Decimals by Whole Numbers
		Dividing Decimals by Decimals
	Fractions and Decimals	Converting Fractions to Decimals
		Converting Decimals to Fractions
		Applying Decimals to Real-World Problems
02. Algebra and Pattern 	Patterns	Introduction to Numerical Patterns
		Understanding Arithmetic Sequences
		Writing Expressions for Patterns
		Solving Problems with Patterns
	Algebraic Expressions	Writing and Interpreting Expressions
		Using Variables in Algebraic Expressions
		Evaluating Algebraic Expressions
		Expressions vs. Equations
	Patterns and Relationships	Exploring Relationships Between Quantities
		Extending Complex Patterns
		Real-World Applications of Patterns and Algebra
03. Measurements 	Volume of Rectangular Prisms	Introduction to Volume
		Volume of Rectangular Prisms
		Applying Volume Formula
	Conversions of Measurement Units	Converting Units of Length
		Converting Units of Weight and Capacity
		Solving Conversion Problems
	Time Measurement	Reading Clocks and Time
		Converting Time Units
		Solving Time Word Problems

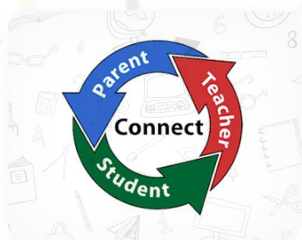


Math Curriculum (Grade 5)

Topics	Module	Lesson Titles
04. Geometry 	Area and Perimeter of Rectangles	Area of Rectangles
		Perimeter of Rectangles
		Area and Perimeter Applications
	Surface Area of Rectangular Prisms	Surface Area of Rectangular Prisms
		Applying Surface Area Formula
		Measurement in Real-World Situations
		Measurement in Construction and Design
	Classifying Two-Dimensional Shapes	Classifying Two-Dimensional Shapes
		Properties of Two-Dimensional Shapes
	Volume and Surface Area	Volume of Rectangular Prisms
		Surface Area of Rectangular Prisms
05. Statistics & Probability 	Coordinate Geometry	Introduction to Coordinate Geometry
		Graphing on a Coordinate Plane
	Geometric Patterns	Exploring Geometric Patterns
	Geometric Transformations	Introduction to Geometric Transformations
		Translation of Shapes
		Rotation of Shapes
		Reflection of Shapes
		Combinations of Transformations
	Angles and Measurement	Measuring Angles
		Angle Relationships
05. Statistics & Probability 	Mean, Median, Mode, and Range	Introduction to Mean, Mode
		Introduction to Median and Range
		Interpreting Data from Tables and Graphs
	Simple Events and Probability	Introduction to Probability: Simple Events
		Applying Probability to Real-Life Situations



Top 10 benefits of learning at Codingal



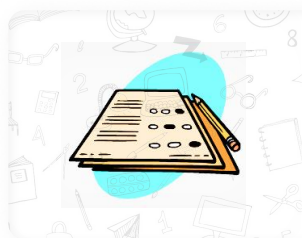
1. Regular PTM

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.

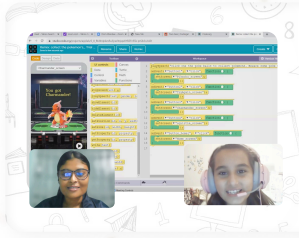


5. Course Customization

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



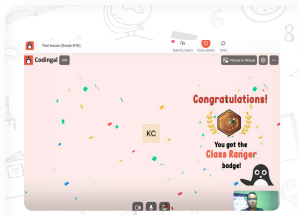
6. Live personalized classes

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



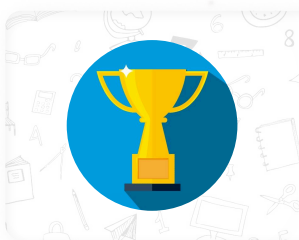
7. Lifetime Access to Class Recordings & Notes

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



4.6 out of 5



4.8 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 - Foundation for the Future

“

"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



Codingal
Where kids love coding

© Codingal Inc.