

BUILD



Interactive games



Mobile apps



Personal websites

Learn Math and Programming skills

Logic and Reasoning | Critical thinking | Problem Solving

Creative Expression | Abstraction

"Everybody should learn to program a computer because it teaches you how to think."

Math and Coding - new life skills!

What type of programmer do you want to be?

Type 1: Infosys programmer

A well-defined problem is given. Primary job is to translate it into code.

Type 2: Netflix programmer

The problem statement is known. Need to be creative in applying known computing principles to come up with a new tech solution.

Type 3: Google programmer

Problem statement vaguely defined. Need to first define the problem and then invent a new algorithm to create a unique solution.

Type 4: OS creator

Need to be creative and define the architecture, its usability, its applications. Then build it out from scratch.

All these types of programmers know syntaxes and languages like Javascript.

But the difference is in their thinking abilities. In their problem-solving abilities.

Building a strong foundation in computer science principles and using code to solve problems allows one to rub shoulders with the best minds in the world.

At Cuemath, coding is not just about syntaxes and the language of programming like Javascript, or HTML, etc. Instead, coding is also about creative problem-solving. Coding helps children break a problem down into smaller steps. It helps them translate their thoughts into precise instructions.

This is a skill complementary to math.

Hence math and coding go hand-in-hand. Math will help students become better at Coding. At the same time, Coding will help students become better at Math.

Your child's path to coding expertise

Level 6				usin	nity Gam Adv We g React- You'll vanced g	eb Dev Redux I build:
Level 5			AI & M	a nd Datc L using F You'l games, p	Python I build:	
Level 4			on (Advai	nced) Java build:		
Level 3		ascript (I Python (I You'll	Basic) build: bsites,			
Level 2	program	l build:				
Level 1	Block-based coding You'll build: simple games and apps					

Your child's starting point depends on their grade/age, their current level of exposure to coding as well as their interest. We highly recommend starting from a level which your child is comfortable with.

While they learn math and programming, they'll also build



features include:

Grades 1 - 3

User controls
Animations
Points scheme

Grades 4 - 5

Multiplayer game Complex Logic Rich Interactions

Grades 6 - 8

3D Motion
Real-world physics
Al components

Mobile Apps



features include:

Grades 1 - 3

Button controls

Multi screens
Images+sounds

Grades 4 - 5

Math functions Survey forms Data storage

Grades 6 - 8

API integrations Encryptions AI chatbot Websites



features include:

Grades 1 - 3

Applying styles
Content hierarchy
Static pages

Grades 4 - 5

Dynamic pages
Forms and input
Animations

Grades 6 - 8

Complex portal Chat support Sign up wall **Tech Solutions**



features include:

Grades 1 - 3

Security alarm
Collision detection
Anti-theft system

Grades 4 - 5

Step counter
Facial Recognition
Smart Parking system

Grades 6 - 8

Weather report system
Robot patrol
Home automation

"Mathematics is foundational... For instance, a lot of what machine learning is improving algorithms. It's all mathematics. It is easier to train a good mathematician on computer science than the other way around."

Young Coders Program - Freshman

Grades 1 to 3 | Age 6 to 8

Level 1 - Module 1	Level 1 - Module 2	Level 2 - Module 1	Level 2 - Module 2
Game Development - Basic through Block-based coding	Game Development - Advanced through Block-based coding	App Development - Basic through Block-based coding	App Development - Advanced through Block-based coding
24 classes	24 classes	24 classes	24 classes
You'll learn Command Sequence For-loops	You'll learn Code Reviews Code Optimisation	You'll learn Event-based program Basic design & layout	You'll learn Controlling variables User input
Events Nested loops	If-else conditions While-loops	Defining buttons Adding screens	If-else statements Conditional logic
You'll build	You'll build	You'll build	You'll build
Pastry Collector Game	Multi-level Maze Game	Paint pot app	Word Jumble App

Level 2 - Module 3	Level 2 - Module 4
Introduction to Internet of Things through Arduino*	Introduction to Internet of Things through Arduino*
24 classes	24 classes
You'll learn Device connections Circuits Event programs Motion sensor	You'll learn Multi-device controls Timer functions Proximity sensors
You'll build Security Alarm	You'll build Collision Detection System

^{*}requires the purchase of an additional kit of sensors and processor

Young Coders Program - Sophomore

Grades 4 to 8 | Age 9 to 13

Level 1 - Module 2E	Level 2 - Module 2E	Level 2 - Module 4E	Level 3 - Module 1
Game Development - Express through Block-based coding	App Development - Express through Block-based coding	Internet of Things (IoT) - Express through Arduino*	Introduction to Web Development through HTML & CSS
24 classes	24 classes	24 classes	24 classes
You'll learn For-loops If-else statements Functions Sprites	You'll learn Event-based program Design & layout Buttons & screens User input	You'll learn Event programs Multi-device controls Motion sensors Proximity sensors	You'll learn Lists, tables & forms Divs & backgrounds Styling through CSS Blocks & Inlines
You'll build Snakes & Ladders Game	You'll build Word Jumble App	You'll build Smart Parking System	You'll build My Family's Website

Level 3 - Module 2	Level 3 - Module 3	Level 4 - Module 1	Level 4 - Module 2
Game Development - Basic through Python	Web Development - Basic through Javascript	Web Development - Advanced through Javascript	Game Development - Advanced through Python
24 classes	24 classes	24 classes	24 classes
You'll learn Functions Control flow Strings & Lists Loops	You'll learn Data types Operators Boolean logic Switch statements	You'll learn Functions Arrays Objects & properties Loops & iterations	You'll learn Modules Dictionaries Files & classes Function arguments
You'll build Ping-pong Game	You'll build Portfolio website	You'll build Survey Portal	You'll build Cannon Shot Game

^{*}requires the purchase of an additional kit of sensors and processor