

Curriculum Snapshot for Grade 1-2

Brought to you by a team from **Google, MIT, Harvard University, IIT Delhi, & Microsoft.**
We've been teaching kids to code since 2010. Join **100k+ parents** giving their kids the competitive edge with Camp K12.



1-on-1 Online LIVE Classes

100% Kid Safe. Learn from home.



Top 1% Certified Teachers

Hand-picked and trained by IIT / MIT team.



Certificate of Achievement

Get certified by Google / IIT Alumni.

Our 12-Months Learning Path for Grade 1-2



Game Development

Session 1 - 36



AI & Game Development

Session 37 - 72



Mobile App Development

Session 73 - 108



3D Games & Virtual Reality

Session 109 - 144



Independent Project

36 classes (~3 months)

- ✓ Build personal portfolio site with projects
- ✓ Beginner certification

72 classes (~6 months)

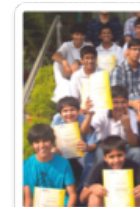
- ✓ Publish AI Game with Computer Vision
- ✓ Developer certification

108 classes (~9 months)

- ✓ Publish Mobile App to Play Store

144 classes (~12 months)

- ✓ Publish 3D/VR Mobile game
- ✓ Mastery Coder certification



BROUGHT TO YOU BY A TEAM FROM:



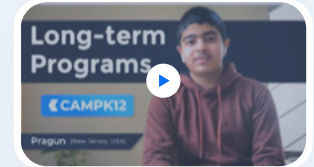
Join 100k+ happy parents

We've been teaching kids to code since 2010. World's best teachers, curriculum creators, and curricula for your child.



Video: Parent Testimonials
<https://youtu.be/VrztbrEIMe0>

Video: Student Testimonials
<https://youtu.be/VrztbrEIMe0>



Vaneeta

Mother of 9th Grader



Singapore



"Camp K12 was a fantastic, constructive experience for Ansh in which he learned more about coding than he has in the previous three years in school and other coding courses. The course content was made extremely accessible to people from all around the world."



Rajesh

Father of 7th grader



USA



"Camp K12 is an excellent online learning option for kids. Right from onboarding to online class, excellent process, guidance and follow-up by support staff. My son gets up at 5AM CST on his own to attend the online sessions, which shows how interesting the sessions are....😊 "



Chandan

Father of 1st grader



India



"My child Aarav has been coding with Camp K12 for 6 months now. Everyday I see him developing games and applying the logic taught by his mentors and he enjoys the everyday assignments. I would like to thank teachers for the great job they are doing! "

Our Founder - coding since age 12



Anshul Bhagi

MIT Computer Science
Harvard MBA, ex-Google



Our Curriculum Creators - master coders and educators



Prasanth

Harvard University, MIT,
ex-Primary School Teacher

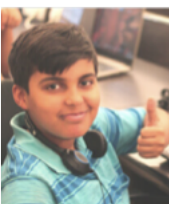


Rishabh

IIT Delhi (Computer Science)
Software Developer @ IBM



IIT DELHI



Curriculum Plans for Grades 1 - 2

0-Cost EMI Options available. 100% refund on unused classes if you're not satisfied, no lock-ins.

36 Classes

Beginner (~3 months)


COURSES INCLUDED

Game Development

OUTCOMES

- Coding fundamentals
- Storytelling & Animation with code
- Published platform game

BONUS FEATURES



Beginner Certificate

₹ 23,600

24,000

2% off

Price per class ₹ 655

MOST POPULAR

72 Classes

Advanced (~6 months)


COURSES INCLUDED

Game Development, AI


OUTCOMES

- Coding deep dive - algorithms and data structures
- Artificial Intelligence with webcam motion sensing
- Publish an AI-powered game


BONUS FEATURES



Developer Certificate



Counselling from IIT & MIT Alumni



Coding Premiere League

₹ 44,999

51,000

12% off

Price per class ₹ 624

BEST VALUE

144 Classes

Mastery (~12 months)


COURSES INCLUDED

Game Development, AI, App Development, 3D Coding & VR


OUTCOMES

- Advanced Math: 3D Geometry, spatial reasoning, 3D physics
- Algorithmic thinking for real-world applications
- Publish mobile app to PlayStore
- Publish multiple 3D/VR games


BONUS FEATURES




Mastery Certificate




Counselling from IIT & MIT Alumni




Coding Premiere League



Independent Project



Top 10% featured on Camp K12 TV



Out of class teacher support


₹ 84,999


1,20,000


25% off


Price per class ₹ 590

In addition, all Camp K12 students get FREE access to:

- 

Their very own Personal Website / Portfolio
- 

Mobile App with daily logic puzzles and contests
- 

World's 1st 3D + AR/VR Coding platform for kids, for home use
- 

#CampK12Talks: Monthly webinar with guests from Google, Microsoft, Twitter, and more

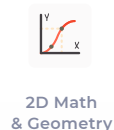
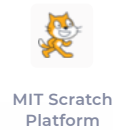


Game Development

Skills You Will Unlock



- Mathematical and Computational Ideas
- Design Process
- Storyboarding
- Logical Thinking
- Creativity
- Communication
- Collaboration and Critical Thinking

What You Will Learn





LEVEL 1 CLASS 1-12



Story-Telling, Sound and 2D Animations

- 1**  **Jungle look**
 - Design your own background
 - Add your characters
- 2**  **Ghost Dance**
 - Change the costumes of your characters
 - Explore Sound and Music with Coding



Motion and Mathematics

- 4**  **Move scratchy**
 - Co-ordinate Axis (x and y)
 - Gliding Movement
- 5**
- 6**  **Google Doodle**
 - Creative designing
 - Character building

Game Designing and Fundamentals of Block Coding

- 7**  **Swimming and Water Game**
 - Introduction to if-else conditional statements
 - Collisions and examples in Game Design
- 8**
- 9**  **Mystery Attack**
 - Keyboard Controls
 - Co-ordinate Axis (x and y)

Introduction to Game Development

- 10**  **Ball, Bat and Bat**
 - Global Variables
 - Broadcast and Receive
- 11**  **3 scene cartoon**
 - Final Project
 - Game Development
- 12**

LEVEL 2 CLASS 13-24



Character Designing

- 13**  **Move Scratchy Advanced**
 - Keyboard Controls
 - Co-ordinate Axis (x and y)



Mouse Control and Mathematics

- 14**  **Dino Jump**
 - Gravity and Acceleration
 - Jump and Fall Movements"
- 15**  **Maze Game**
 - Collision Detection
 - Advanced Background Designing

Story Boarding and Advanced 2D Game Designing

- 16**  **The Hungry fish game**
 - Introduction to Loops
 - Scores and rewards in Game Design
- 17**  **The Hungry fish game (Part 2)**
 - Adding a start and stop condition
 - Forever Loop

Advanced Movements and Introduction to Physics

- 18**  **Fruit catch**
 - Collision Detection
 - Advanced Background Designing
- 19**
- 20**  **Ask the Player and Write a Story**
 - User Input and Output
 - Dialogue and Speech

Advanced Game Development and Screen Scrolling Game

- 21**  **Race the Cars**
 - Scoring Mechanism
 - Game Development
- 22**
- 23**  **2 player football game**
 - Scoring Mechanism
 - Game Development
 - Movement and Motion
 - If-else Conditional Statements
- 24**

LEVEL 3 CLASS 25-36



Art and Animation

- 25**  **Dress Me Up**
 - Design your own background
 - Design your own characters

Story Boarding and Advanced 2D Game Designing

- 26**  **Ping Pong**
 - Mouse Controls
 - Movements using mouse
- 27**  **Space Rescue**
 - Advanced Scoring




Mouse Control and Mathematics

- 28**  **Rock Paper Scissors**
 - Variables
 - Operators
- 29**
- 30**  **Enemy Attack**
 - Rewards and Scores
 - Spawning

Advanced Game Development and Screen Scrolling Game

- 31**  **Boss Fight**
 - Advanced Scoring
 - Collision Detection
- 32**
- 33**

Creativity and Databases

- 34**  **Paint the Fish**
 - Cloning Concepts
 - Colors and Design
- 35**  **Dodge the Obstacle**
 - Cloning Application
 - Global Variables
- 36**  **Piano Tiles**
 - Game Dev with Music
 - Databases
 - Application of Global Variables



Game Development

- Fundamentals of coding using blocks-based visual programming (MIT Scratch platform)
- Logic development: Sequencing & Structuring
- Mathematics: Arithmetic, geometry, and 2D coordinate systems (animations along x and y axes)
- Coding concepts: Commands, If-else (conditionals), Loops, Variables, Events, Cause-and-effect, Functions
- Game Dev concepts: Collision Detection, Animation, Graphics



Coding Fundamentals



MIT Scratch Platform



2D Math & Geometry



4+ Platformer Games (e.g. Mario)



5+ Arcade Games



Story-telling & Animation



AI & Game Development

- Further practice with MIT Scratch and blocks-based coding, kids build advanced games using AI concepts and features
- AI with Computer Vision: Coding "Fruit Ninja" game using Webcam-based gesture recognition
- AI with Speech Synthesis: Coding 2D animated stories with automated speech
- Coding concepts: Moving from basic commands to algorithms
- Focus on understanding "What is AI" and how it can be applied



Intro to Algorithms



AI Fundamentals



MIT Scratch Platform



Webcam Motion Sensing



Text-to-Speech (e.g. Alexa)



AI-Powered Ninja Game



Mobile App Development

- Learn to design, code, and publish a mobile app using MIT platform loved / used by 10M+ kids
- Basics of App Design (UI/UX): Layouts, Forms, Buttons, Actions, Screens, and other GUI elements
- Basics of Mobile App Dev using blocks-based coding
- Mobile Game Development: Timers, Animations, Canvas, Sprites
- Working with input from phone sensors (e.g. Accelerometers)
- Re-inforcing all coding concepts taught in Months 1-6



Kid-friendly Blocks coding



MIT AppInventor Technology



Intro to Data Structures



App-store Launch



8+ Mobile Games & Apps



WhatsApp Clone



3D Coding & Virtual Reality Games

- Design, code, publish, and share various 3D games using free 3D / Virtual Reality editor built by Camp K12
- Build your own Minecraft / Roblox-like world using Blocks-based coding, invite friends to play in it
- Mathematics: Build child's spatial intelligence; heavy use of 3D Coordinate Systems (x, y, z) and calculations in 3D space
- Advanced: Publish your projects as Augmented Reality mobile apps



2D / 3D Mathematics



Advanced Coding Concepts



Build your own Minecraft World



5+ Published 3D Games



Lion King 3D Story



AR / VR / 360° Mobile App