



INTERMEDIATE CURRICULUM (GRADES 2-3)

Build full Entrepreneur-ready Games, Apps, Websites and AI/ML Models



Class 1-48

Game Design and Basic App Development

Class 49-96

Advanced Game Development and UI/UX Design

Class 97-144

Database and API integration in Apps

1

Story-telling & Game Design

Students will be introduced to basic programming constructs to design story boards and puzzle games.

- ✓ Commands
- ✓ Sequencing
- ✓ Loops
- ✓ Events



Fly me to the space
Create your own story and animation.

2

Single Player Games

Students will learn how to build multiple single player fun games using block based coding.

- ✓ Conditionals
- ✓ Variables
- ✓ Functions
- ✓ Complex Shapes



Bouncing Ball Game
Build a single player bounce ball game.

3

Mobile App Development

Students will learn how to create mobile apps and publish them on playstore.

- ✓ UI Controls
- ✓ App publishing
- ✓ Arithmetic Operations
- ✓ String Comparison



Teach Me To Type
Build an app to type fast by understanding key locations.

4

Utility Apps

Students will learn to build multiple utility apps for daily use.

- ✓ Mouse Events
- ✓ Randomization
- ✓ Nested Loops
- ✓ Debugging



Trash Sorter Application
Create an interactive app to generate social awareness.

5

Space Tech Simulations

Students will create space tech simulations to understand the interplay between the Earth, Sun & Moon.

- ✓ JS libraries
- ✓ Velocity
- ✓ Kinematics
- ✓ Event Triggers



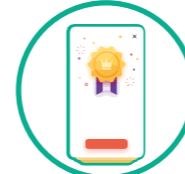
Lunar Launch Simulation
Design a simulation for lunar launch exploration

6

Apps using Databases

Students will explore the concept of Arrays and data tables via app building.

- ✓ Arrays
- ✓ Data Tables
- ✓ Classes
- ✓ Objects



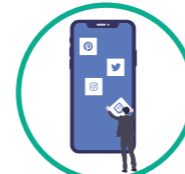
SuperHero App
Build a reward-based coding super hero app using databases.

7

UI/UX Design

Students will learn how to build professional responsive apps.

- ✓ OOPS
- ✓ CSS
- ✓ Tabular Layout
- ✓ Rows & Columns



Professional Portfolio Application
Student showcase all their applications through a native mobile app.

8

Memory Based Games

Students will learn to build multiple word and memory based games.

- ✓ String variable
- ✓ Canvas
- ✓ Algorithmic Thinking
- ✓ String Manipulation



Hang Man
Students build the famous Hang man game from scratch.

9

Native Apps

Students will learn how to build native apps for mobiles.

- ✓ App Components Design
- ✓ Logic Gates: AND, OR, NAND, NOR



Smart Home App
Students will build a smart home app with integrated systems for security and power supply.

10

Full Stack Apps

Students will learn to create and access local data sources for passing data in apps

- ✓ Databases
- ✓ Tables
- ✓ Queries
- ✓ Data Retrieval



Crime Investigator App
Students will build a game using local and 3rd party data import.

11

API Integration

Students will learn to integrate APIs in apps to access live DB.

- ✓ API endpoints
- ✓ Agent Import
- ✓ Firebase
- ✓ Data Handling



News Application
Students will build a data-heavy news application using Firebase.

12

Artificial Intelligence

Students will learn to build and integrate intelligent chatbots in mobile apps.

- ✓ Intent
- ✓ Training
- ✓ Response
- ✓ Machine Learning



Chat Assistant
Students will build their own AI chatbot application

