Page 1 of 2: CURRICULUM SNAPSHOT:

Shrey, my 10 year old has developed keen interest in coding after doing the WhiteHat Jr course. Shrey, my 10 year old has developed keen interest in coding after doing the WhiteHat Jr course.

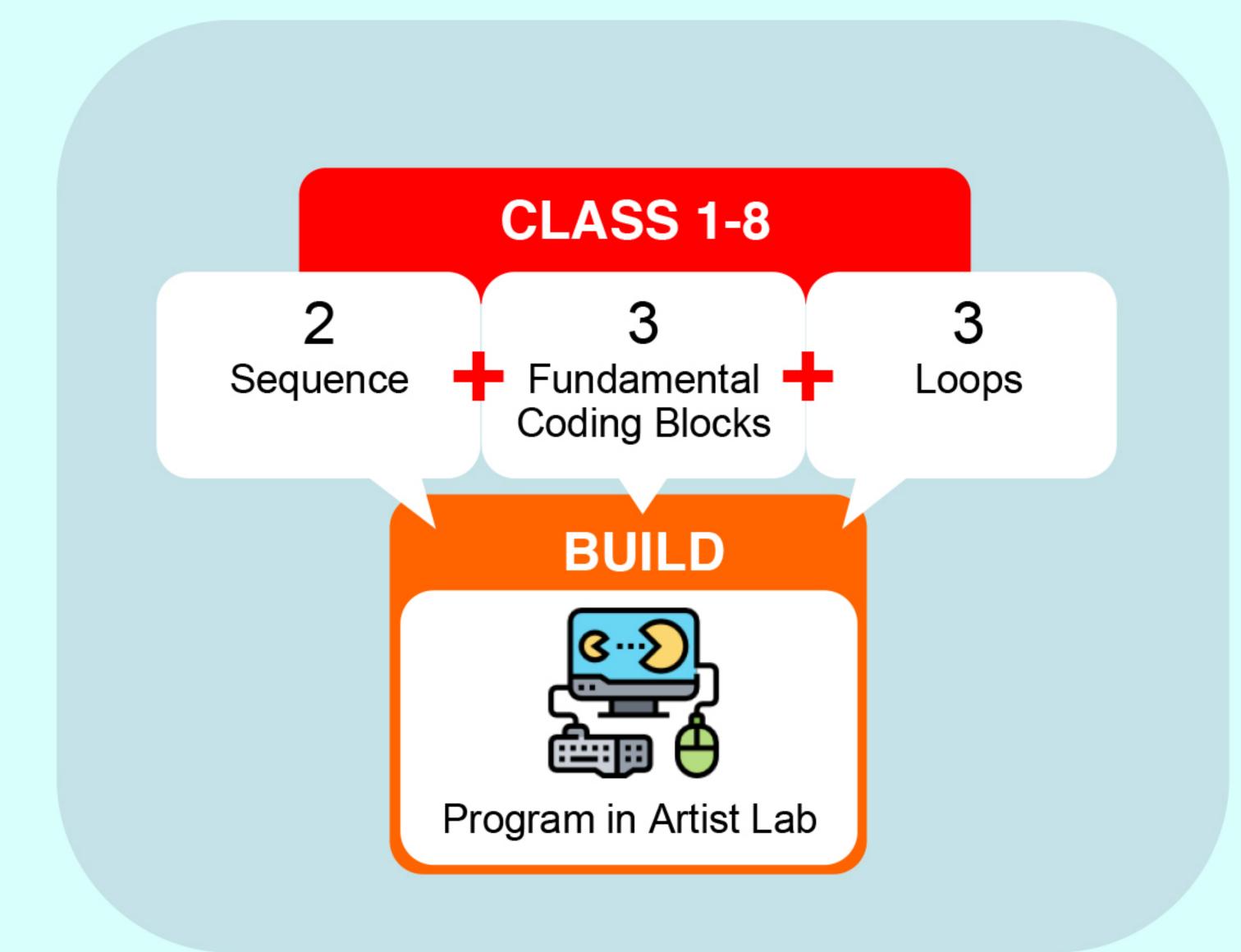
His logical thinking is sharper and can now easily relate to structures and algorithms, and wants to create new real-world programs by himself. I wish every kid has exposure to this course!" - Leena Shah, Mom, Entrepreneur.

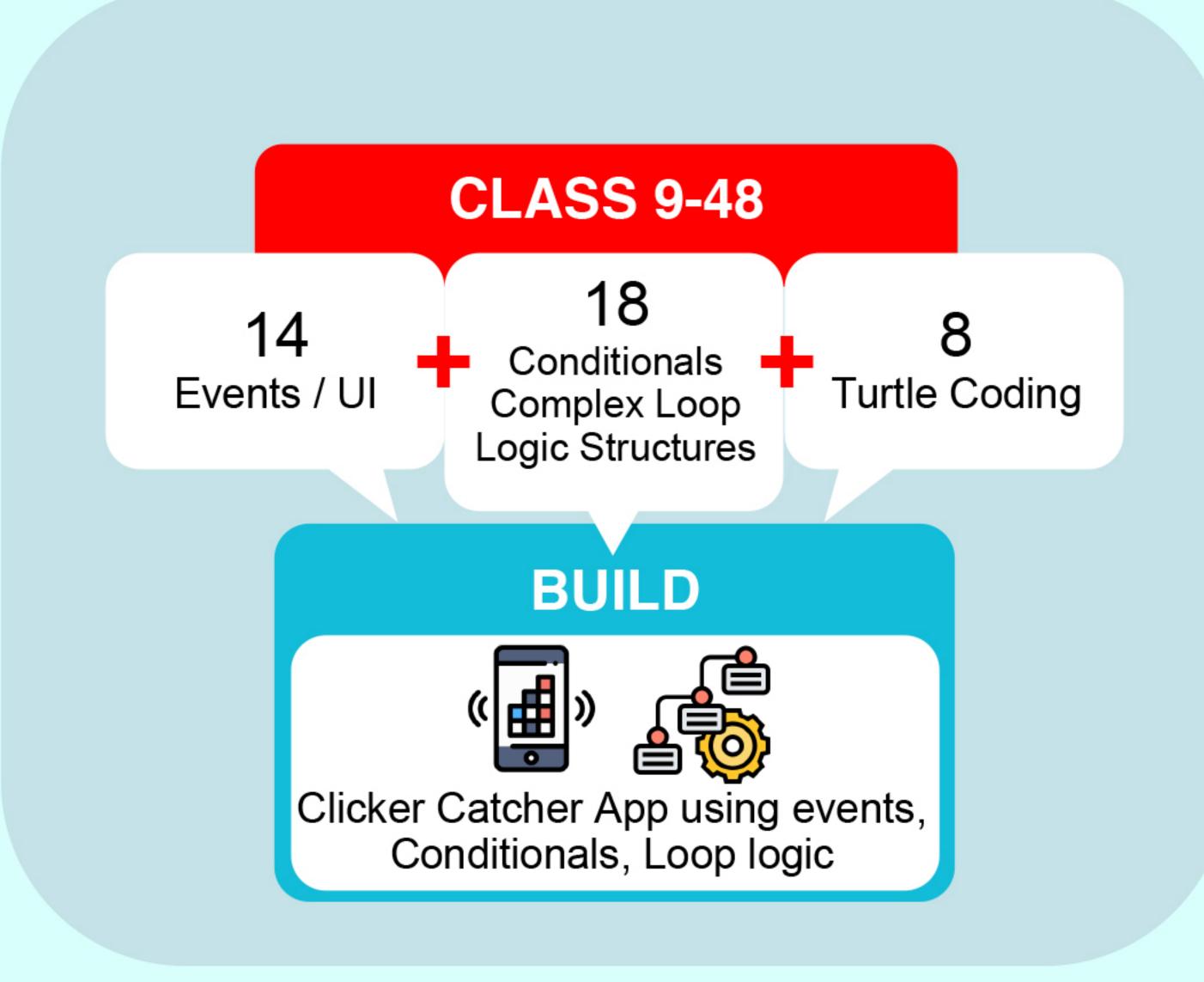


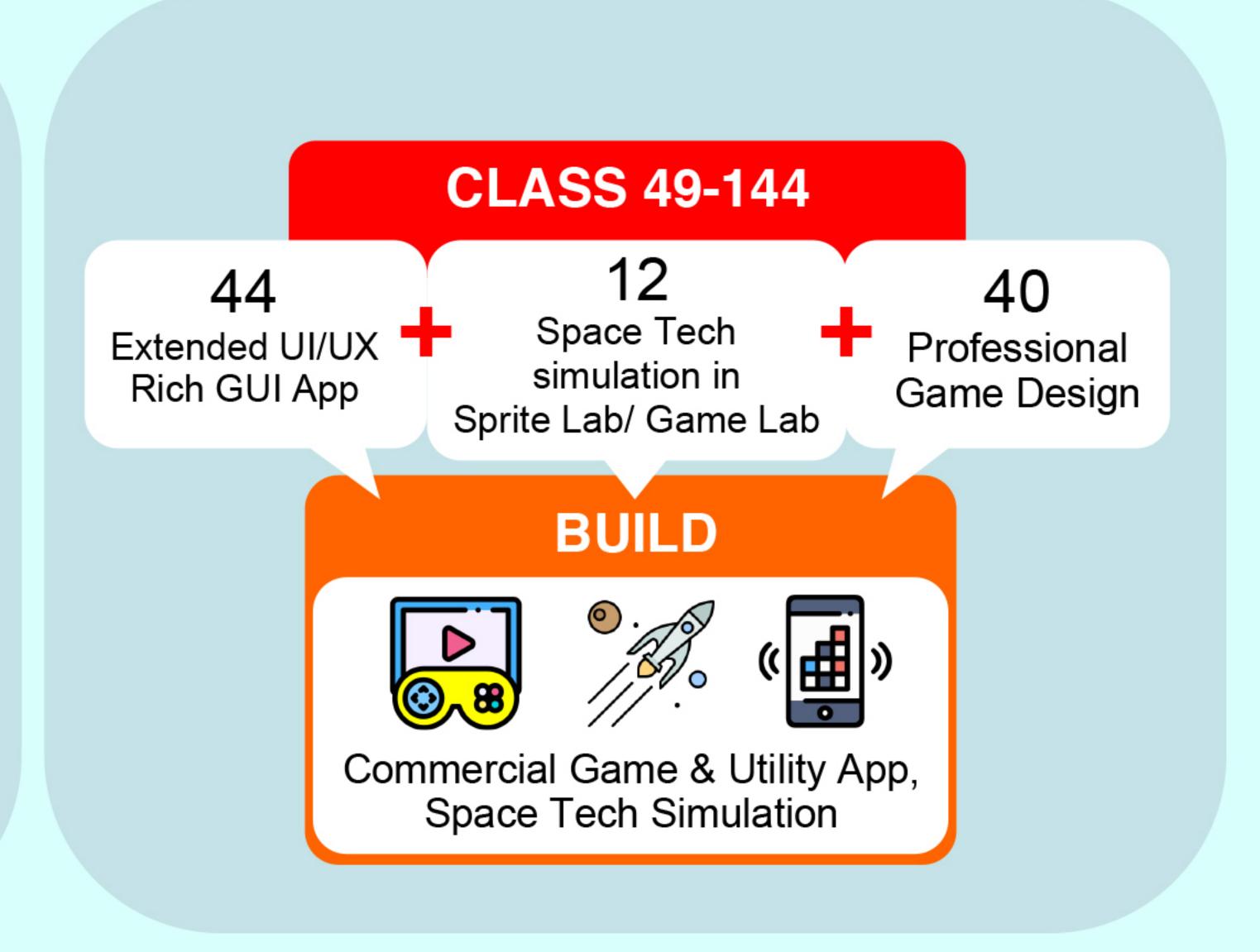
Build Your Own Ruled Computer Games with Logic & Abstraction.

Kids creativity declines by 96% from early childhood because standardized learning systems keep logic and abstract streams discrete, eroding the developing mind's ability for pattern recognition and discovery application.

In WhiteHat Jr Coding, kids use foundation of logic-sequence, loops, commands to create outcomes like puzzles, Interactive Stories, App's, Commercial Games and Space Simulation.







Google

Boston Consulting Group

Discovery Networks

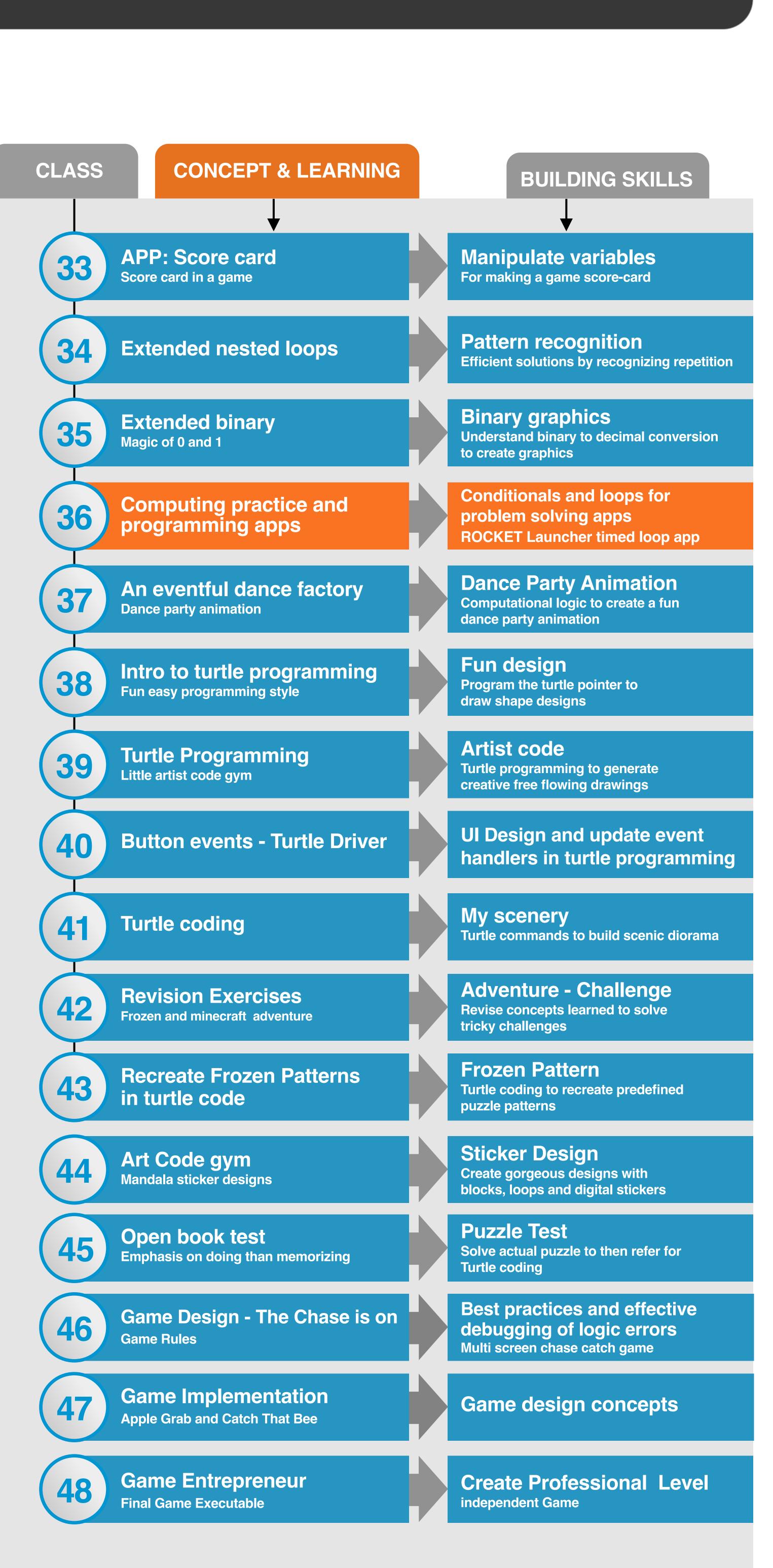
IIM Bangalore Bombay

FOUNDATION

Basics + Core Programming Concepts + Blockly + Simple Apps

CLASS	CONCEPT LEARNING	BUILDING SKILLS
	↓	
T	Command Logic-Based commands	Kids create animations By giving computer complex directional commands
1	Sequence Commands, sequence & code structure	Non-linear outcomes Commands and sequence to write a code
2	Flexible Sequencing Decision Making Skills	Puzzle solving Ways to solve a problem
3	Code Debugging Fixing logic flaws in code	Create program outcomes Correct mistakes in the algorithm
4	Introductory Loops Program having fewer lines of code	Creator confidence Loops to replace long lines of code with short
5	Loop Sequences Solve complex puzzles	Loop sequences to program Write programs with loops
6	Logic Logic & Abstract Thinking	Form shapes, alphabets Create 2-dimensional art forms
7	Loops Complex puzzles are created on foundation	Puzzles Loop can make instruction more efficient
8	Professional Art Logic for significant creative endeavours	Sequence, algorithms & loops Program Code to develop ALIEN and SPACESHIP in artist lab
9	Complex Loops Commands to write program	Constructs, development Star wars adventure activity
10	Deep Programming Programming practice with activities	Implement programming Deepening programming practice
11	Event Interactive Animation with events	User interaction Create story with a program
12	Pair Programming Pair programming and build their story	Concept of pair Design and Code
13	Action Events that correspond to user action	Pair programming Create an animation story
14	Nested Loops Solutions by recognizing repetition	Create efficient solutions Learn to recognize systems
15	Text Command Iterative Conditional Loop	IPO processing cycle Translate direction commands to text input
16	Bounce Game Build first interactive game	Construction & wireframe Learnt concepts & build interactive game

CLASS	CONCEPT & LEARNING	BUILDING SKILLS
17	Debugging Cognition Complex Program debugging	Solve Debug and fix code
18	Conditionals Decision making skills	Criteria definition For conditional evaluation
19	Game User events and interactions	Single player game Flappy bird
20	Binary Strings How computers store and process data	Create Advanced Mobile Game with UI Design
21	Variables Change game dynamics using variables	Star wars game Using variables
22	Extended variables Computer games using variables	Clicker game lce age scrat clicker game
23	Revision Practice Use concepts learned to solve tricky challenges	Solving challenging puzzles
24	Mobile app Learn app coding	Interactive mobile app
25	While loop Loop constructs to control program flow	Puzzle activities
26	Mobile app Basic GUI to design simple app	Mobile APP - GUI
27	Until Loop & IF Conditions Decisions	Condition Evaluation
28	Mobile App Using Conditionals	Mobile App Using if - Else- Elseif constructs
29	Binary Math Number system	Math puzzles Translate binary to decimal
30	Mobile App WHILE Loops	Mobile app using loops to generate repeat patterns
31	Mobile App Multi screens	Multi screen navigation With navigation to switch screens
32	App clicker game Game app with UI design	Game - app clicker game Events and UI to create a game app



EXPLORATION

RICH GUI + Heavy core logic + Blockly + Animation + Professional Apps

CLASS	CONCEPT & LEARNING	BUILDING SKILLS
(49) Sp	pace Tech UI Controls	Slider Control-Control size of planets components for improved user interaction
50 Ex	tended UI Controls	Image Control components for improved user interaction
51 Ex	tended UI Controls	Canvas Control components for improved user interaction
52 Ex	tended UI Controls	DropDown Menu control components for improved user interaction
53 Ex	tended UI Controls	Checkbox and Radiobutton controls for improved user interaction
54 M	ouse Events in App	App Lab Event handlers for mouse events
55 M	ouse Events in App	App Lab Event handlers for mouse events
56 Ke	ey Events in App	App Lab Event handlers for mouse events
57 Ke	ey Events in App	App Lab Event handlers for mouse events
58 Sp	pace Tech -Timed Loops	Timer concepts in App Lab Stop Watch and Counter for Rocket Launch
59 Se	et Timeout, Clear Timeouts	Timer control concepts in App Lab
60 Va	riables	Controlling memory with variables
61 Va	riables	Assign values with variables
62 Va	riables	Local Vs Global Variables
63 UI	elements at run time	Dynamic UI
64 In	tegration App	Virtual thinking skill - Algorithm

CLASS	CONCEPT & LEARNING	BUILDING SKILLS
65	Hybrid App	Design thinking Skill -UI UX
66	Hybrid App	Creative thinking skill Coding implementation
67	Jser inputs and Strings	Strings In Apps
68	Boolean Expressions	AND and OR
69	Programming with Data	Data structures Key value pairs
70	Programming with Data	Data structures Key value pairs
71	unctions	Basic repeating code structure
72 F	unctions	Puzzles in Artist Lab using functions
73	Functions and Return Values	Functions in App
74	Functions and Return Values	Use of functions in App
	Responsible Use of Internet and Digital Footprint	Exercise caution when on internet
76	Abstraction	Concepts of objects and abstraction
77	Abstraction	Concepts of objects and abstraction
78	Abstraction	Concepts of objects and abstraction
	Sprites Freation and properties	Sprite Lab interactions Creative Thinking Skill
	Sprites Constume property	Sprite Lab interactions Creative Thinking Skill

CLASS CONCEPT & LEARNING	BUILDING SKILLS
Space Tech Sprites Actions and Behaviours	Sprite Lab - Black Hole Simulation Creative thinking skill
Space Tech Sprites Virtual interactions	Sprite Lab - Solar System Rotation, Revolution Concepts
83 Sprite Lab animations	Sprites in action
Sprite Lab animations	Complex sprite movement
Sprite animations in Game Lab	Collisions in sprites Meteorites crashing simulation
Space Tech Sprite animations in Game Lab	Build a game in sprite lab-l Gravity Concept Game
Space Tech Sprite animations in Game Lab	Build a game in sprite lab-II Conditionals in Gravity Game
Space Tech Sprite animations in Game Lab	Build a game in sprite lab-III Bounce, float, collisions in Gravity Game
89 Custom Sprites	Game Lab
90 Custom Sprites	Game Lab
91 Space Tech Build a story	Sprites in Game Lab Story - Astronaut lost in space
Space Tech Build a story	Sprites in Game Lab Story - Astronaut lost in space
Code interactive experiences	Sprites and Game Lab Fashionista App
94 Code interactive experiences	Sprites and Game Lab Fashionista App
Space Tech Code interactive experiences	Animating Sprites in game lab Journey in Space Animations
Space Tech Code interactive experiences	Animating Sprites in game lab Journey in Space Animations

SPECIALIZATION Go CRAZY with Commercial quality games and utility app BLOCKLY + THUNKABLE





