Scratch Curriculum

(For Ages 4 To above)

Sessions: 1 - 48

(Page 1)

Sessions: 49 - 96

(Page 2)

Sessions: 97 - 144

(Page 3)

Become A Scratch littleninja

Learn   Advanced
Coding Concepts

The Path To Mastery

48 sessions
Scratch_Lego Junior

96 sessions
Scratch_Mega Mid

144 sessions
Scratch_Coolstar pro

Learn Coding In Fun Manner While Building Animations & Games

Introduction to Block-based Programming

Session 1-16

- Basics of programming
- Sequential programming
- animating the object

Logic Fundamentals

Session 17-26

- Parallelism
- Cloning
- Event driven programming

Interactive Game Design

Session 35-48

- Loops
- Iterations
- Conditional programming

Control Flow

Session 27-34

- Interaction logic
- Local variable
- Game design

What Will My Child Create?
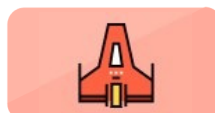
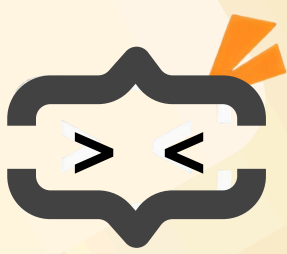**10** Animations

+

10 Interactive Games

Examples

Pong Game

Clicker Game

Shooter Game

Arcade Game

Scratch Curriculum

(For Ages 7 To 10)

Sessions: 1 - 48

Sessions: 49 - 96

Sessions: 97 - 144

(Page 1)

(Page 2)

(Page 3)

Become A Scratch Mega Mid

Learn Advanced Coding Concepts

The Path To Mastery

48 sessions
Scratch_Lego Junior

96 sessions
Scratch_Mega Mid

144 sessions
Scratch_Coolstar pro

Learn Advanced Coding Concepts While Building Complex And Multi-Player Games

Operators
Session 49-61

- Mathematical Operators
- String Operators
- Conditional Operators

Variables
Session 62-70

- String Manipulation
- Using Variables
- Types of Variables

Functions
Session 71-73

- Global Variables
- Functions

Extensions & Libraries
Session 74-85

- Using libraries
- Extensons
- Text-to-Speech
- Video Sensing

Arrays & Lists
Session 86-96

- Introduction to lists
- Operations on lists
- Self Made Project

What Will My Child Create?

10 Multi-Level Games
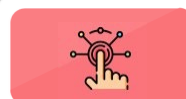
+

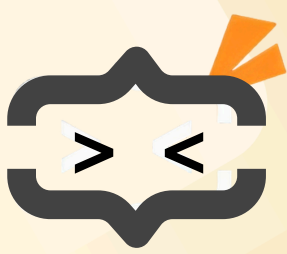**10** Basic Platformer Games

Examples

Multi-Level Game

Multi-Player Game

Real World Activity

Basic Platformer Game

Scratch Curriculum

(For Ages 7 To 10)

Sessions: 1 - 48	Sessions: 49 - 96	✓ Sessions: 97 - 144
(Page 1)	(Page 2)	(Page 3)

Become A Scratch Cool Star Pro

Learn Expert-Level & ML Games

The Path To Mastery

48 sessions	96 sessions	144 sessions
Scratch_Lego Junior	Scratch_Mega Mid	Scratch_Coolstar pro

Learn To Apply Your Coding Skills To Make Expert-Level Games And Machine Learning Games

Advanced Platformer Game

Session 97-106

- Scrolling background
- Cloning
- Gravity
- Costume design

Game Physics

Session 107-120

- Wall Jump
- Infinite vertical scroll
- Projectile

3D Games

Session 121-128

- 3D-Objects
- 3D-Projections

Machine Learning Games

Session 129-144

- Machine Learning basics
- ML-application

What Will My Child Create?

10 Advanced platformer games	+	3 3D Games	+	5 ML Based Games

Examples

Super Mario Game	Infinite Monkey Ladder	3D-Car Racing Game	Rock-Paper-Scissor AI