



Programming

Learn basic - complex programming language, innovate various animation and games

Applied STEAM

Learn Integrated Science, Tech, Engineering, Art, Math, innovate various applied programming project

5-7 Tahun

ScratchJr Builder

Learn Icon-Block Programming, Build your own animation & game with ScratchJr

- 1 **Story Animations** Planet Liberi
Concepts Learned:
✓ Sequence ✓ Events
✓ Movement ✓ Sound
- 2 **Interactive Projects** Planet Thesaurus
Concepts Learned:
✓ Messages ✓ Start on Tap
✓ Parallel Script ✓ Control
- 3 **Simple Mech. Games** Planet Hēros
Concepts Learned:
✓ Single Button ✓ Timer
✓ Broadcasts ✓ Ending Scenarios
- 4 **Complex Mech. Games** Planet Terra
Concepts Learned:
✓ Multiple Controller ✓ Win/Lose Scenarios
✓ Interactions ✓ Score System

7-12 Tahun

Scratch Maker

Learn Visual Programming, Make various 2D animation & game with Scratch

- 1 **Interactive Stories** Planet Liberi
Concepts Learned:
✓ Sequence ✓ Sprite Clicked
✓ Go-to & Glide ✓ Sound
- 2 **Key-Controlled Games** Planet Saùde
Concepts Learned:
✓ Movements ✓ Variables
✓ Conditionals ✓ Clones
- 3 **Complex Move Games** Planet Retro
Concepts Learned:
✓ Key-press ✓ Bouncing Mechanism
✓ Loops
- 4 **Mouse-Controlled Games** Planet Terra
Concepts Learned:
✓ Control ✓ Mouse Events
✓ Adv. Clones ✓ Score System
- 5 **Advanced Mouse Controlled Games** Planet Artes
Concepts Learned:
✓ Extension ✓ Clones + Local Variables
✓ Effects
- 6 **Advanced Games** Planet Invento
Concepts Learned:
✓ Multiple Ending Pages ✓ Adv. Move
✓ My Blocks

10-15 Tahun

Roblox Creator

Learn Text Programming, Create 3D game & animation with Roblox

- 1 **3D World Environment** Planet Iris
Concepts Learned:
✓ Parts/Physics ✓ Lighting
✓ Terrains ✓ Environment
- 2 **Musical Environment** Planet Cantio
Concepts Learned:
✓ Environment ✓ User Interface
✓ Effects ✓ Sound & Music
- 3 **Mechanical Games** Planet Koda
Concepts Learned:
✓ Physics ✓ Events
✓ Functions ✓ Conditional Structures
- 4 **Multiplayer Games** Planet Multum
Concepts Learned:
✓ Remote Events ✓ Client & Server
✓ Dictionaries ✓ Arrays
- 5 **Modular Games** Planet Natura
Concepts Learned:
✓ Module Scripts ✓ Tweening Object
✓ Database ✓ Vector CFrame
- 6 **Monetization Games** Planet Militia
Concepts Learned:
✓ Game Loop ✓ Object-Oriented Programming
✓ Monetization

Tinkercad Designer

Learn Science, Tech, Engineering, Art, Math, Design 3D objects with Tinkercad

- 1 **Shapes Exploration** Planet Figura
Concepts Learned:
✓ Tinkercad Intro ✓ Horizontal movement
✓ Shapes ✓ Placing Shape ✓ Resizing
- 2 **Simple 3D Design** Planet Familia
Concepts Learned:
✓ Shapes ✓ Vertical Movement
✓ Simple Object ✓ Moving Object
✓ Parts of a Family members
- 3 **Complex 3D Design** Planet Aria
Concepts Learned:
✓ Precision Position ✓ Park Introduction
✓ Complex 3D object (Diorama)
- 4 **Detailed 3D Object Printing** Planet Vectura
Concepts Learned:
✓ 3D print ✓ Detailed object
✓ Space in shape ✓ Massive Transportation

Robotic Inventor

Learn Science, Tech, Engineering, Art, Math, Invent your own Robot

- 1 **Electronic Circuits** Planet Elektra
Concepts Learned:
✓ Components ✓ Open / Close Circuits
✓ Conductors
- 2 **Moving Machines** Planet Vectio
Concepts Learned:
✓ Motor ✓ Series & Parallel Circuits
✓ Prototyping
- 3 **Light & Sound Controller** Planet Lumina
Concepts Learned:
✓ Intro to Microbit ✓ Buttons, Sounds, LED
- 4 **Sensor-Controlled Proj.** Planet Destro
Concepts Learned:
✓ Sensors ✓ Electronic Components
✓ Accelerometer
- 5 **Servo-Controlled Proj.** Planet Rota
Concepts Learned:
✓ Servo Motors ✓ Electric Pins & Circuits
✓ Currents
- 6 **Ultrasonic Sensor Proj.** Planet Notios
Concepts Learned:
✓ Introduction to Phyton ✓ Functional Projects

IoT Developer

Learn Science, Tech, Engineering, Art, Math, Develop your own Internet of Things (IoT)

Developing Soon



Note:

1 Level terdiri dari 12 kali pertemuan (tiap pertemuan selama 1 jam)

