



**BIG
BRAINBOX**
Aim Your Dream.

SUMMER CAMP CURRICULUM



12 WEEKS OF HANDS-ON LEARNING
ENDLESS POSSIBILITIES



Coding
& AI



Robotics &
Engineering



Science &
Discovery



Math &
Logic



Creativity
& Design



FUTURE SKILLS. REAL WORLD IMPACT.

Building innovators, problem solvers and
confident leaders of tomorrow.



<https://bigbrainbox.io/>



469-625-4575

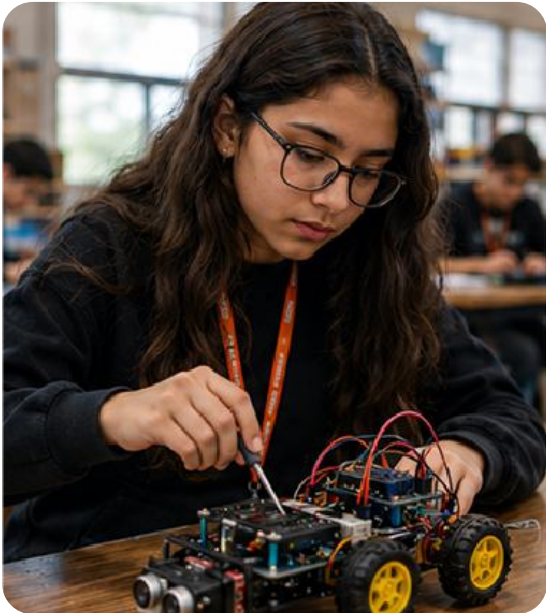


WEEK-1

Explore. Build. Understand.

Session	Grades	Activity
AM	K - 2	Mini Eco-Modelers
	3 - 5	Game Dev Garage: Design → Code → Playtest
	6 - 8	3D Geometry & Modeling Studio
PM	K - 2	Build-a-Game PlayLab
	3 - 5	Geometry by Design: Blueprints & Builds
	6 - 8	Robotics Prototyping Studio

THEME: Biology • Game Design • Geometry • Robotics



WEEK-2

Solve. Design. Engineer.

Session	Grades	Activity
AM	K - 2	Problem-Solving Bots
	3 - 5	Ecosystem Engineers: Build & Balance
	6 - 8	Gameplay Engineering: Systems & Loops
PM	K - 2	Shape Builders Workshop
	3 - 5	Robo Rescuers: Design to Solve
	6 - 8	Systems Ecology: Model & Map

THEME: Biology • Game Design • Geometry • Robotics



WEEK-3

Code. Test. Create.

Session	Grades	Activity
AM	K - 2	Block-Code Builders(Minecraft EE)
	3 - 5	Reaction Quest: Plan-Test-Record
	6 - 8	Applied Math: Markets & Models
PM	K - 2	Ask, Test, Fizz!
	3 - 5	Bridges, Waterworks & Power Lab
	6 - 8	Civil Systems Studio: Bridges. Water.Energy

THEME: Minecraft Coding • Chemistry • Engineering • Math

**WEEK-4****Build. Analyze. Apply.**

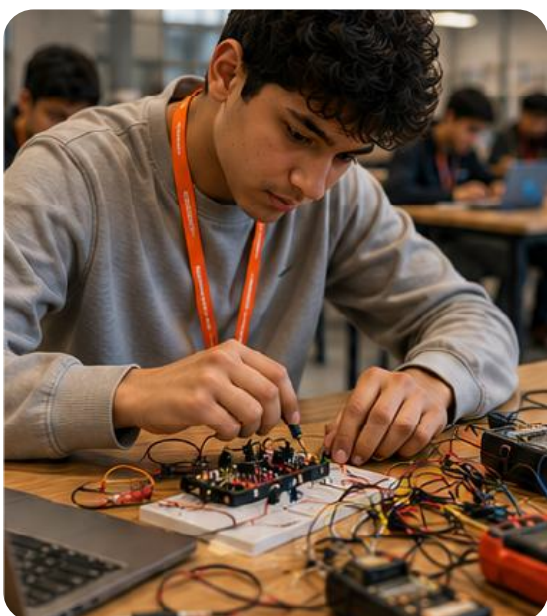
Session	Grades	Activity
AM	K - 2	Money Math & Game Quest
	3 - 5	CodeCraft: Redstone-> Python Basics
	6 - 8	Experimental Chemistry: Variables & Reactions
PM	K - 2	Bridge & Rivers Builders
	3 - 5	Finance & Fun: Math Arcade
	6 - 8	Minecraft Python Studio: Automate & Analyze

THEME: Minecraft Coding • Chemistry • Engineering • Math

**WEEK-5****Design. Model. Innovate.**

Session	Grades	Activity
AM	K - 2	Body & Bite Science
	3 - 5	App Builders with AI: Chetbots & Tools
	6 - 8	Motion Modeling: Senors + Functions
PM	K - 2	Smart Helpers: Build a Simple App
	3 - 5	Kinematics Lab: Speed, Graphs & Games
	6 - 8	E&M Studio: Fields, Components, Circuits

THEME: Engineering • AI • Physics • Electromagnetism

**WEEK-6****Test. Tinker. Transform.**

Session	Grades	Activity
AM	K - 2	Zap Lab: Light-Up Circuits
	3 - 5	Human Body + Food Lab
	6 - 8	AI App Lab: From Prompt to Prototype
PM	K - 2	Move & Measure: Sensor Science
	3 - 5	Electro Lab: Components & Circuits
	6 - 8	Anatomy & Food Science Studio

THEME: Engineering • AI • Physics • Electromagnetism



WEEK-7

Code. Build. Optimize.

Session	Grades	Activity
AM	K - 2	Sprite Squad: Create & Improve
	3 - 5	Backyard Food Webs
	6 - 8	Angles to Architecture Lab
PM	K - 2	Level Up! Mechanics & Debugging
	3 - 5	Mechatronics: Design ->Iterate -> Deploy
	6 - 8	Geometric Design: Model & Make

THEME: Game Design • Robotics • Ecology • Geometry



WEEK-8

Design. Build. Engineer.

Session	Grades	Activity
AM	K - 2	Geo-Art: Create & Construct
	3 - 5	Tiny Machines: Build & Test
	6 - 8	Mechanisms & Makers Lab
PM	K - 2	Biomes & Biodiversity Lab
	3 - 5	Biodiversity Data Quest
	6 - 8	Robotics Prototyping Studio

THEME: Game Design • Robotics • Ecology • Geometry



WEEK-9

Explore. Experiment. Excel.

Session	Grades	Activity
AM	K - 2	Curious Chemists Lab
	3 - 5	Structures Under Stress: Test & Improve
	6 - 8	Infrastructure Innovation Challenge
PM	K - 2	Redstone Rules & Mini-Missions
	3 - 5	Experiment Engineers
	6 - 8	Robotics Strategy, Stats & Simulations Lab Studio

THEME: Engineering • Math • Minecraft Coding • Science

**WEEK-10****Design. Analyze. Impact.**

Session	Grades	Activity
AM	K - 2	Wind & Water Power Play
	3 - 5	Puzzles, Payoffs & Probability
	6 - 8	Command Blocks to Scripts: Mod & Build
PM	K - 2	Logic Playground
	3 - 5	Algorithm Adventures in Minecraft EE
	6 - 8	Design-Run-Analyze: Chem Studio

THEME: Engineering • Math • Minecraft Coding • Science**WEEK-11****Create. Prototype. Present.**

Session	Grades	Activity
AM	K - 2	Kids + Chatbots: Idea to Demo
	3 - 5	Anatomy Adventure Kitchen
	6 - 8	Sports Motion Math with Sensors
PM	K - 2	Everyday Problems → App Solutions
	3 - 5	Sensors & Signals: Design and Debug
	6 - 8	Data-Driven Kinematics Studio

THEME: AI • Engineering • Physics • App Design**WEEK-12****Analyze. Innovate. Elevate.**

Session	Grades	Activity
AM	K - 2	Bounce, Roll & Graph
	3 - 5	Magnet Magic Makers
	6 - 8	Magnetism Proved! Build & Test
PM	K - 2	Nutrition Ninjas: Test & Taste
	3 - 5	From Cells to Sense: Experiments in Health
	6 - 8	Generative AI Studio: Design with Chatbots

THEME: AI • Engineering • Physics • App Design

**HANDS-ON
LEARNING**
Real projects.
Real skills



**FUTURE-READY
SKILLS**
Coding, STEM,
AI & more.



**EXPERT
INSTRUCTORS**
Experienced &
passionate mentors



**SAFE & ENRICHING
ENVIRONMENT**
Where kids learn
and thrive.



**LET'S BUILD
THE FUTURE**
One amazing
week at a time.