





BLOCK ELECTRONICS

PROJECT KIT

ARDUINO













GRADE 3 CURRICULUM





UNIT

04



Topics - Introduction to Electronic, input and Output devices, Different types of Switches & Circuit types How it helps - Creativity, Develop Imagination, Futuristic thinking, Knowledge of Technology



Topics - Introduction to Sensors, Project Building and Day to Day Applications like Automatic Street lamp, Clap Switch, Water Dispenser, Motor Related projects

How it helps - Use of sensors, Automation, Technological skills



Topics - Automation, Build your first Robot, Speed control, Introduction to Transmitter and Receiver, Remote operated Utilities and more

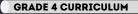
How it helps - Application of knowledge, Analytical skills



Topics - Applications of Electronic Blocks, Line followers, Cliff avoiding robotic vehicle, Light Following Robots How it helps - Project management, Design thinking and Problem Solution

PLATFORM
BLOCK ELECTRONICS
K E R C A D
INCLUSIONS

- ALL PRACTICAL 18
 CLASSES
- CONCEPT CLASSES
- PROJECT CLASSES
- REVISION CLASSES
- ASSESSMENT
- QUIZZES
- CLASS SUMMARY
- PRACTICE PROJECTS
- PROCEDURE DOCS







UNIT 02

UNIT 03

UNIT

04



Topics - Advanced concepts related to Electronic, Input and Output devices, Use of circuits and Structures for home

How it helps - Logical Reasoning, Knowledge of Technology



Fopics -Design Applications like Automatic Dustbin, Light Dependent Resistor (LDR) Circuits, Sound Sensors, Automatic Watering System, Introduction to Different types motors

How it helps - Cognitive flexibility. Engineering skills



Topics - Home Automation. Remote Controlled devices. Application of Blue devices like Auto mail box. Sensor controlled umbrella using Servo motor

How it helps - Analytical skills, Problem Solving



Topics - Introduction to Robotic Line followers, Cliff avoiding robotic vehicle. Introduction to OR. AND and NOT Gate How it helps - Project management, Innovative thinking



GRADE 5 CURRICULUM





GRADE 6 CURRICULUM





GRADE 7 CURRICULUM





GRADE 8 CURRICULUM





UNIT

UNIT 03



Topics - Control LED using voice, IR Sensors, DTDP Switch, Industrial application of Robotics

How it helps - Adaptability, Decision making, Empirical and Quantitative Skills



Topics - Understand Sensors and make projects like parking sensor, automatic plant watering sysytem

How it helps - Research aptitude, Result Documentation, Numerical ability



Topics - Learn to communicate Arduino with your Phone via Bluetooth, Programming hacks How it helps - Engineering skills (Motor skills), Design thinking, Cognitive Hexibility



Topics - Observe a problem and think of Solution, Make a capstone project, Control appliances with Bluetooth How it helps - Collaboration, Communication, Self management

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GRADE 9 CURRICULUM



















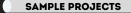






















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