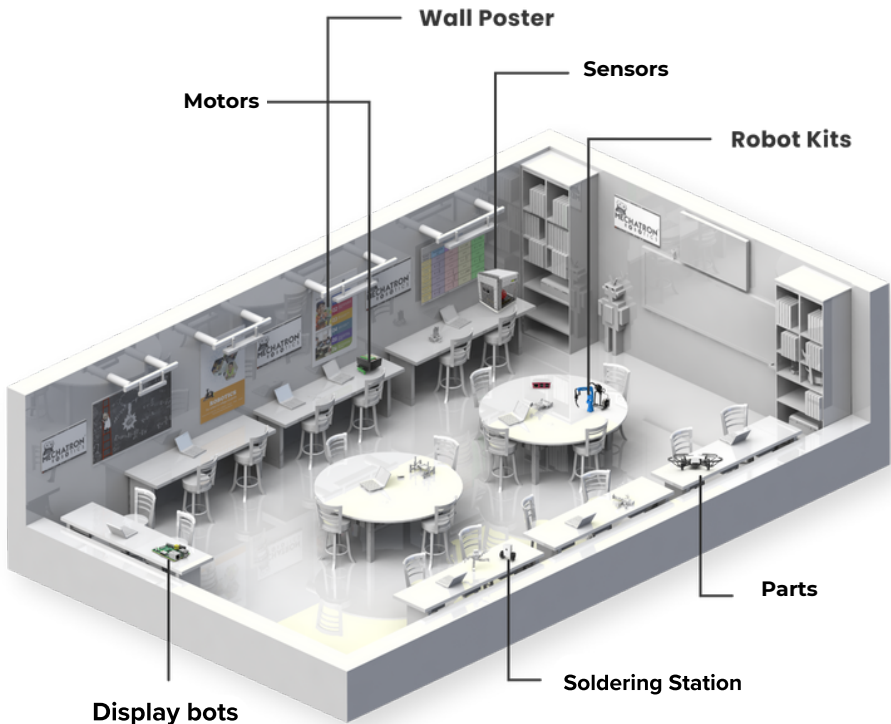




# Robotics Lab Setup

Grade 1 - 5



# Robotics Lab Kit x 40



# Components



9v Alkaline Battery x 1



Battery Wire x 1



Distance Blox x 1



Buzz Blox x 1



Motor Driver x 2



Invert Blox x 1



Power Blox x 1



Button Blox x 1



Wire-Tap Blox Pair x 1



Lamp Blox x 1



Dark Blox x 1

# Construction



Battery Holder x 1



1 Hole Beam x 24



1 Hole Elbow x 24



3 Hole Elbow x 12



2 Hole Elbow x 12



M-M Coupler x 8



BO Shaft x 8



Axle Coupler x 8



Blox Holder x 4



5 Hole Beam x 12



Medium Axle x 2



Short Axle x 2



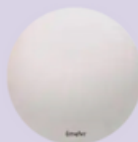
Long Axle x 2



BO Motor Holder x 2



BO Mini Wheels x 2



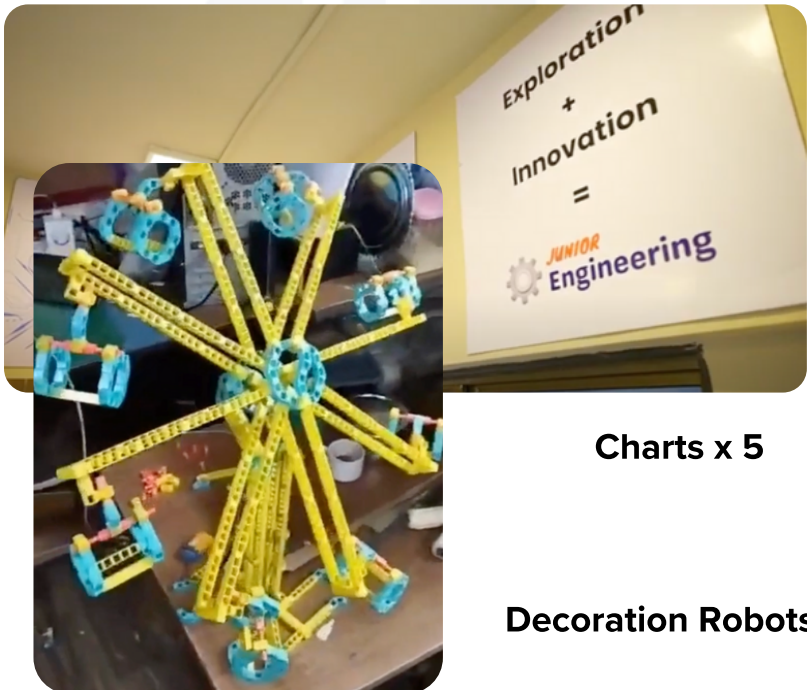
Mini Plastic Ball x 1



# Interiors



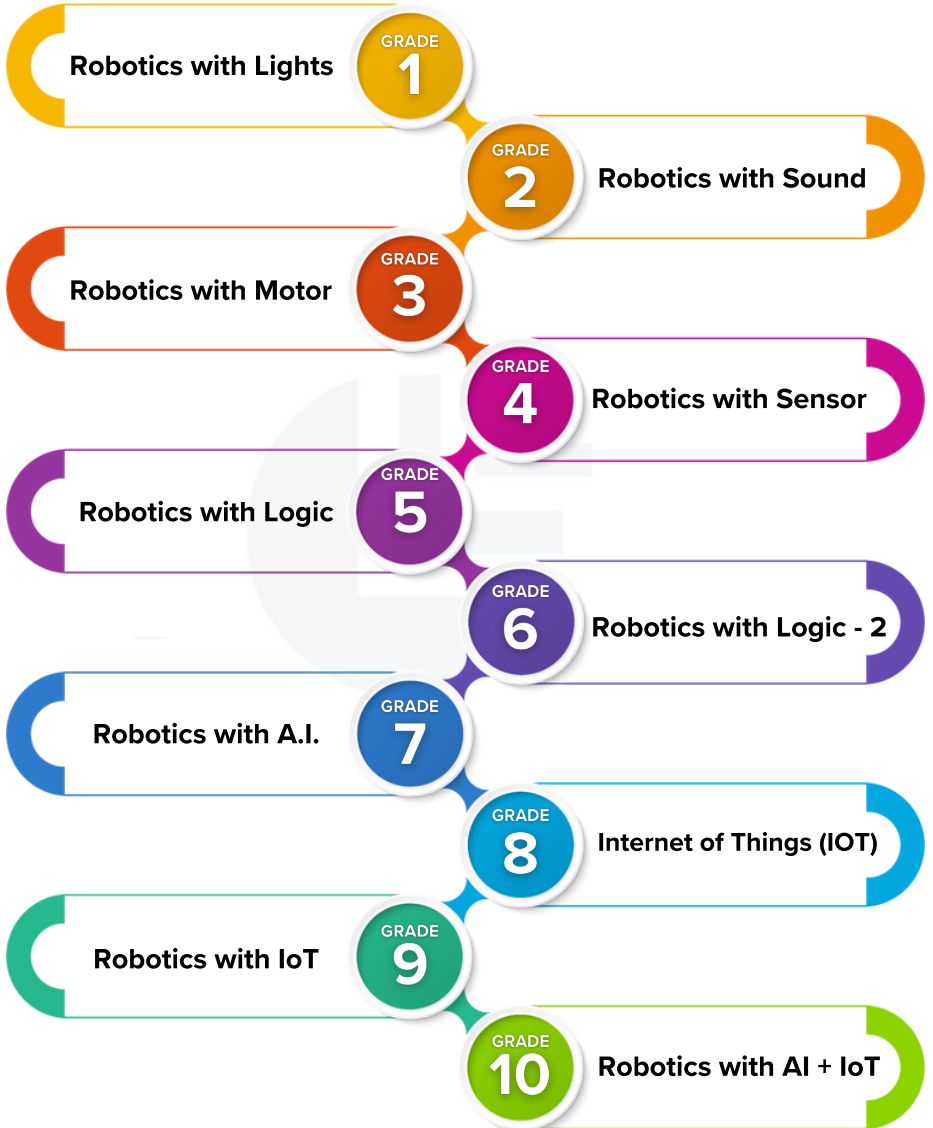
Wall posters x 5



Charts x 5

Decoration Robots x 2

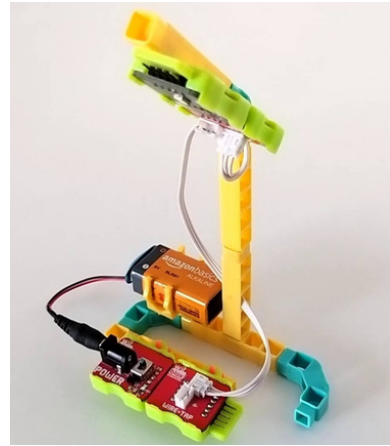
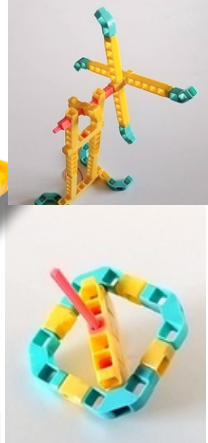
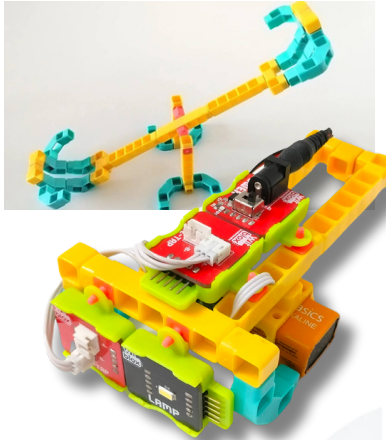
# Grade-Wise



# Grade

# 1

# Curriculum



1

## Introduction

Welcome to Robotics



5

## Hanging Lantern

in depth Electronics

2

## Hand Held Torch

in depth Electronics

6

## Hoop Ball Game

understanding Mechanics

3

## See Saw

understanding Mechanics

7

## Manual Swing

understanding Mechanics

4

## Hand Cranked Pulley

8

## Ball Kicker Stand

understanding Mechanics

Grade

1

Projects



9

**Lamp Post  
Street Light**

15

**Secret Message  
Sender**

10

**Checkpoint  
Assessment**



16

**Rolling Shutter**  
understanding Mechanics

11

**Spinning Top**  
understanding Mechanics

17

**Rubbered Power Car**  
understanding Mechanics

12

**Simple Table Lamp**  
understanding Mechanics

18

**Techfest**



13

**PullString Top**  
understanding Mechanics

19

**Assessment**  
Test Yourself

14

**Rubberband  
Powered Fan**

20

**Certification**  
Get Certified



**1000+ More Projects**



1

## Introduction

Welcome to Robotics



5

## Snail Robot

Motorised

2

## Motorised See Saw

Motorised Mechanism

6

## Johnny Robot

Johnny Walker Robot

3

## Railway Barrier

Motorised Railway Barrier

7

## Foldable Lamp

Foldable Table Lamp

4

## Long Robot Claw

2 Finger Long Robot Claw

8

## Ball Kick Stand

Motorised Mechanism

Grade

3

Projects



9

**Windmill**

Motorised Mechanism

15

**Aeroplane**

Motorised Mechanism

10

**Checkpoint**

Assessment



16

**Motorcycle**

Motorised Mechanism

11

**Cart Push Robot**

Motorised Mechanism

17

**Preparation For**

Tech Fest

12

**Merry Go Round**

Motorised Mechanism

18

**Techfest**



13

**Helicopter**

Motorised Mechanism

19

**Assessment**

Test Yourself

14

**Power Generator**

Handheld Power Generator

20

**Certification**

Get Certified



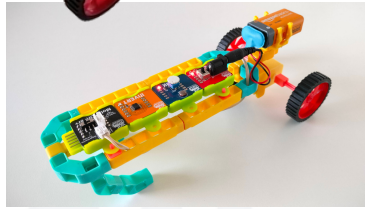
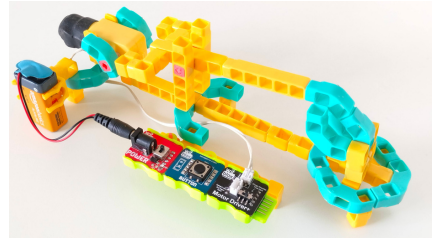
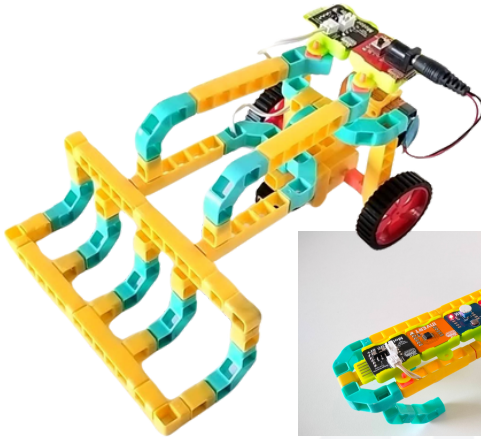
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Grade

4

Curriculum



1

**Introduction**

Welcome to Robotics



5

**Overhauling Crane**

Motorised Mechanism

2

**Bulldozer Robot**

Motorised Mechanism

6

**Light to Go Robot**

in depth Electronics

3

**Dark to Go Robot**

in depth Electronics

7

**Finger Robo Gripper**

Mannul Crank Driven

4

**Lifting Crane**

Winch & Pully based

8

**Motorised Crank**

Driven Robot

Grade

4

Projects



9

**Circle Drawing Robot**  
Hand Held Torch

15

**Hammer Mechanism**  
Manual Mechanical

10

**Checkpoint**  
Assessment



16

**Sensor Power Hammer**  
Motorised

11

**Bar Gripper**  
Motorised

17

**Table Top Blender**  
Mechanism

12

**4Leg Monster Bug**  
Motor Usage

18

**Techfest**



13

**Push Rod Gripper**  
Sensor Based

19

**Assessment**  
Test Yourself

14

**Motorised Door**  
Dark Activated Motor Door

20

**Certification**  
Get Certified

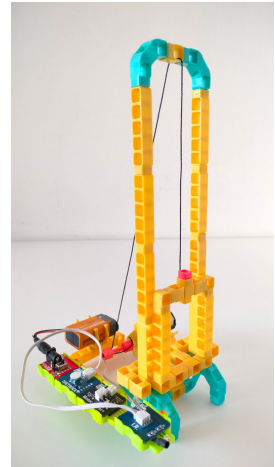


**1000+ More Projects**

Grade

5

Curriculum



1

**Introduction**

Welcome to Robotics



5

**Black Line Following Robot**

2

**Racing Car**

Motorised Mechanism

6

**Obstacle Avoiding Robot**

3

**Anti Collision Car**

in depth Electronics

7

**Well Water Pully**

Contactless Motorised

4

**Biped Rickshaw**

in depth Electronics

8

**L/R Following Robot**

in depth Electronics

Grade

5

Projects



9

**Bidirectional  
Sensored Elevator**

15

**Smart Hand Blender**  
Smart & Portable

10

**Checkpoint  
Assessment**



16

**White Line  
Following Robot**

11

**Hand show to Go/  
Reverse Robot**

17

**Sensored Table Fan**  
Sensor Controlled

12

**Hand to Seek**  
in depth Electronics

18

**Techfest**



13

**Edge Avoiding  
Sensored Robo**

19

**Assessment**  
Test Yourself

14

**Adv. Hand  
Following Robot**

20

**Certification**  
Get Certified

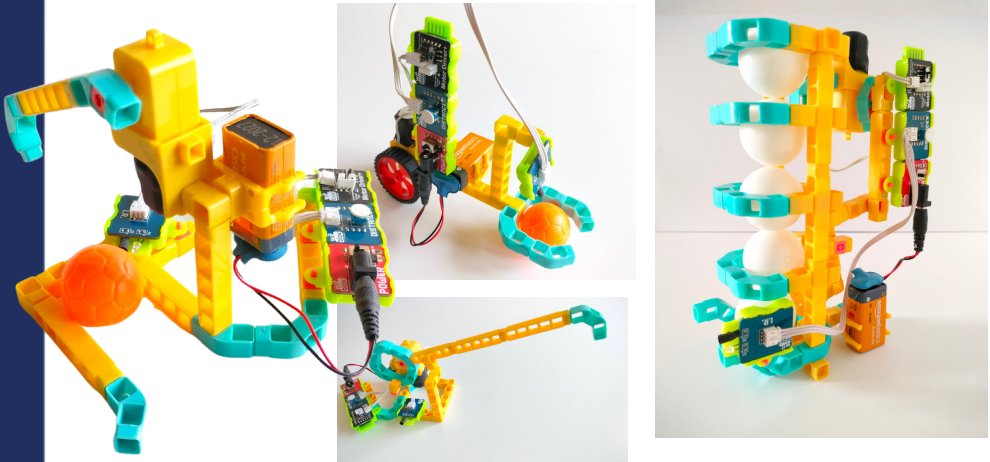


**1000+ More Projects**

Grade

6

Curriculum



1

**Introduction**

Welcome to Robotics



5

**Motorised Ball  
Pusher**

2

**Adv. Edge  
Avoiding Robot**

6

**Ball Machine  
Sensor Controlled**

3

**Reverse Parking  
Helper**

7

**Hand Motion  
Control Door**

4

**Sensor Sliding Door  
Motorised**

8

**Fork Lift Mechanism  
Sensor Controlled**

Grade

6

Projects



9

**Retractable Single Bridge**

15

**Hand Motion Roller Blinds**

10

**Checkpoint Assessment**



16

**Room Cleaning Robot**  
Understand Programming

11

**Sensor Railroad Barrier**  
Sensor Controlled

17

**Preparation For**  
Tech Fest

12

**Ball Play Companion**  
in depth Electronics

18

**Techfest**



13

**Sensor Robotic Crane**  
Sensor Controlled

19

**Assessment**  
Test Yourself

14

**Sensor Motorised Swing**

20

**Certification**  
Get Certified



**1000+ More Projects**



# Certification



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