

Class Name	Matrix Micro Introduction to Cars	Lesson Plan	v 01.00
Make/Model	KK Intelligent Technology Inc.	Last Updated on:	2022/11/28
Class Duration	12 Classes/60 minutes per class		
Suitable for	Beginner Programming Language/Elementary School		
Applicable Setting	School Clubs/Classrooms		
Applicable kit	MMJ0001		
Applicable interface	MakeCode		
Lesson Orientation	Programming		
Course Concept Description			
Lesson Plan	Lesson 1	Micro:bit and MakeCode	Micro:bit and MakeCode
	Lesson 2	5X5 LED Matrix Control	Program Flow
	Lesson 3	RGB LED Control	Variables
	Lesson 4	Device Enabling	Conditional Loops
	Lesson 5	Guessing Game	Random
	Lesson 6	Car Robot	Robot Movement Control
	Lesson 7	Acceleration and Gear Change	Application of Conditions, Variables and Loops
	Lesson 8	Orientation Robot	Electronic Compass Application, Car Steering
	Lesson 9	Climbing Robot	Accelerometer Application
	Lesson 10	Tracking Robot	Grayscale Sensor
	Lesson 11	Obstacle Avoiding Robot	Laser Sensor
	Lesson 12	Tracking and Obstacle Avoiding Robot	Integrated Sensor Application
Site Requirement	Classroom, long table, black tape for tracking, obstacle avoidance field		
Equipment Requirement	Personal computer		
Reviewer	Fang		
Key Words			