

# Smart Vehicle

The Smart Vehicle Climate Action Kit is designed to introduce learners to autonomous electric vehicle technology and the positive impact it can make on climate change.

The kit includes all of the hardware and online lesson content to build and code working prototypes of this real-life technology.



## Features



### Curriculum-Aligned

Lessons are aligned to several international curriculum standards



### No Student Login

Students can access content through a login-free browser-based platform



### Grades 3 to 12

Provide a continuum of learning for students as they advance their skills



### Differentiated Learning

Users can code in block-based, JavaScript, or Python coding languages



### Maximize Class Time

Single-class lessons, backed with a 2-year warranty



### Easy-To-Use

Intuitive hardware and step-by-step tutorials

## What's in the Kit

x1 Breakout Board

x1 Sonar Sensor

x1 LED Light

x2 Continuous Servo Motor

x1 Posotional Servo Motor

x1 Line Sensor with Ball & Caster

x1 Base Plate

x2 Long Frame

x4 Medium Frame

x1 Medium Frame with Servo

x1 Thin Frame

x1 Srew Driver

x2 Wheel

x1 USB Cable

x2 Cable Adapter

x4 Cube Connector

x4 Corner Connector

x1 Long Cable Connector

x2 Short Cable Connector

x2 Back-to-Back Connector

x3 Component Backing Connector

## Lessons Included

### Fire Detection Vehicle

GR. 7-8

Wildfire Tracking with Autonomous Vehicles

### Automated Tree Seeder

GR. 9-10

Replanting Our Forests with Automated Tree Seeders

### Autonomous Electric Vehicle

GR. 11-12

Autonomous Electric Vehicles of the Future

### Glacier Detection Station

GR. 7-8

Monitoring Glaciers with Autonomous Detection Station

### Object Collector

GR. 9-10

Resource Collection with Autonomous Vehicles

### Automated Delivery Vehicle

GR. 11-12

Automating Delivery Systems with Electric Vehicles and AI