**Dreadnought education plan**

Topic:

Transport problem in Hong Kong

Learning objective:

* Understand transport problem in Hong Kong
* Relationship between citizen behavior & transport problem
* Policy of transport in HK
* Leisure life style and transportation (cycling path, jogging path)
* Innovation of transportation system
* STEM training
* Design Project of Hong Kong transport problem

Learning outcome:

* Citizen responsibility
* Creativity in problem solving
* Design thinking
* Peer-to-peer learning
* Fundamental of Electric Vehicle Technology
* Skill in prototype building (3D design, electronics & mechanical skill)

Class schedule:

* 5 class for topic discussion (bi-weekly)
* Coverage of Social Science, Science Theory, Current Technology
* Involved learning kit
* 5 self-training class for stem
* Student need to show their innovation in the design of EV chassis & decoration

**Details class plan:**

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| Learning objective | class | Topic | Coverage | Time |
| Introduction of daily transport problem | 1 (why transportation is crucial for citizen daily life?) | Managing daily activities | Healthy lifestyle  Facilities for leisure transportation  Work-life balance | 10 mins |
| Social interaction | Understand transport problem in Hong Kong  Social movement  Electric vehicle  Shortage of Hong Kong current policy to transportation issue | 20 mins |
| Competence for the world of work | Team building workshop  Brainstorming about transportation facilities surround the school  How do student improve the facility | 30 mins |
| Transportation, Hong Kong Economics & city planning | 2 (why transportation is a crucial social problem to Hong Kong?) | Competence for the world of work | International status of Hong Kong  Business type that highly related to transportation  Massive transportation system | 10 mins |
| Entrepreneurship & Technology | Payoff of Hong Kong transportation (air pollution, waste heat, etc.)  Discussion of previous action shortage  Innovation of transportation business | 20 mins |
| STEM education | Experience workshop – the Chassis building of an EV | 30 mins |
| Facilities, import & export | 3 | Social interaction | Facilities & policy for export & import in Hong Kong  Mechanism, function and GDP of each facility | 10 mins |
| Entrepreneurship & Technology | Foreign example in trading transportation  Extreme transportation  Innovation of trading transportation  Discussion of previous action shortage | 20 mins |
| STEM education | Experience workshop – the drivetrain system building of an EV | 30 mins |
| Transport management | 4(how to build a sustainable system to solve transport problem?) | Social interaction | City planning  Road monitoring management  AI driving  Alternative transportation | 10 mins |
| Entrepreneurship & Technology | Foreign example in innovative transportation  Discussion of previous action shortage | 20 mins |
| STEM education | Experience workshop – the control system building of an EV | 30 mins |

**Experience Workshop**

**Product:**

Example of Electric Vehicle that build in the workshop