

June 2026

Automobile - Go, Car, Go!

汽車——出發吧，車子，衝啊！

Learning about Motion and Energy

Cars move because forces and energy work together. During this project, students learned how ramps and slopes affect speed, how potential energy changes into kinetic energy, and how friction and balance influence the movement of a vehicle. By exploring these concepts through hands-on activities, students discovered how engineers use science to design vehicles that move efficiently and safely.

Ramp Racers – Ready, Set, Go!

The Grade 1 students became engineers as they designed and built their own **ramp racers**. After learning about ramps, friction, balance, and energy, students selected materials and created their own vehicle designs. They then built, tested, and improved their racers to help them travel farther and stay balanced. Through the design process, students practiced problem-solving, creativity, and perseverance while having a great time racing their creations and learning how science helps things move!

認識運動與能量

汽車之所以能夠移動，是因為力與能量共同作用的結果。在這項專題中，學生學習斜坡與坡度如何影響速度、位能如何轉換成動能，以及摩擦力與平衡如何影響車輛的運動。透過親手操作與探索，學生發現工程師如何運用科學原理來設計既高效又安全的交通工具。

坡道賽車手——預備，出發！

一年級的學生化身為小小工程師，設計並製作自己的坡道賽車。在學習斜坡、摩擦力、平衡與能量等概念後，學生挑選材料並規劃自己的車輛設計。接著，他們動手製作、測試並改良賽車，讓車子跑得更遠且保持平衡。在設計與製作的過程中，學生培養解決問題的能力、創造力與堅持不懈的精神，同時也在賽車活動中享受樂趣，並瞭解科學如何幫助物體移動。

1

ASK + IMAGINE
提問 + 創思

2

We explored slopes, ramps, and friction to see how they affect the speed of automobiles.
我們探討斜坡、坡道和摩擦力，並觀察它們如何影響汽車的速度。



3

PLAN
計畫

4

We planned our **ramp racers** and chose suitable materials for our designs.
我們規劃坡道賽車，並為選擇合適的材料。



4

CREATE
創造

5

We followed our design plans when building our ramp racers.
我們在製作坡道賽車時，依照自己的設計圖進行製作。



Testing was the most fun! During testing, we observed our **racers** and thought about how we could improve them.

測試是最有趣的部份！在測試過程中，我們觀察自己的賽車，並思考如何改進它們。

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