

June 2025

## Automobiles

### 汽車

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### Learning about Forces

Energy that comes from the movement of an object is called *kinetic energy*. Energy that is stored in an object because of its position or shape is called *potential energy*. Energy can change between potential and kinetic depending on how the object moves. One fun way to explore this idea is by making and testing balloon-powered cars.

### Balloon Cars – Making It Move!

The idea behind a balloon-powered car is simple but exciting! When you blow up the balloon, place your car on the ground, and let it go, air rushes out of the straw. This escaping air pushes the car forward and makes it move.

The car's potential energy is stored in the stretched balloon. As the balloon fills with air, it gains more potential (or 'waiting') energy. When the air comes out of the balloon, that energy changes into kinetic (or 'moving') energy. The balloon-powered car moves using this kinetic energy. The Grade 1 students had a blast learning about energy and the science behind their balloon-powered cars. They also did a fantastic job following the design process as they built and tested their own cars!

### 關於「力」的學習

來自物體運動的能量稱為「動能」。因物體的位置或形狀而儲存能量稱為「位能」。能量會根據物體的運動方式在位能和動能之間轉換。一個有趣的探索能量轉換方式是製作並測試氣球動力車。

### 氣球車 – 讓它動起來！

氣球動力車的原理簡單卻令人興奮！當你吹起氣球，將車子放在地上並放手時，空氣會從吸管中排出。這股排出的空氣推動車子向前，使它移動。

車子的位能儲存在被拉伸的氣球中。隨著氣球充滿空氣，它獲得更多的位能（或稱「等待中」的能量）。當空氣從氣球中排出時，這些能量就轉變為動能（或稱「移動中」的能量）。氣球動力車就是利用這股動能來移動的。一年級學生非常開心地學習能量以及氣球動力車背後的科學原理。他們在設計、製作和測試自己的車子時，也表現得非常出色！

1

ASK + IMAGINE  
提問 + 創思

2

We learned all about potential and kinetic energy and how it works. 我們學到關於位能和動能的所有知識，以及它們是如何運作。



3

PLAN  
計畫

After getting all the required materials, we set to work on building our cars. 在準備好所需材料後，我們開始製作我們的車子。

4

CREATE  
創造

We helped each other and worked together on making our balloon-powered cars. 我們互相幫助，一起製作氣球動力車。



5

IMPROVE  
改進

Testing was the most FUN! We got to race our cars and see which ones go the fastest. 測試是最有趣的環節！我們讓車子比賽，看看哪一台跑得最快。

