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Simple Machines 簡易機械

All about Simple Machines

How can we make our job easier? Grade 2 students explored the world of simple machines! They began by thinking of ways to make everyday tasks easier by using forces such as pushing and pulling. They shared their ideas and came up with different solutions to problems they encounter in their daily lives. They discovered that simple machines can make many tasks easier.

Next, students went on a simple machine hunt around the school! They looked carefully at different objects and tools to find examples of simple machines, such as levers, wheels and axles, pulleys, ramps, and screws.

Simple Machines in Action

Students took on the exciting challenge of identifying a classroom task that could be made easier, then designed and built their own machines, combining one or two simple machines to solve the problem. They tested their ideas, saw what worked, and improved their designs. Through this hands-on exploration, students discovered how simple machines can help us move, lift, push, pull, and carry things more easily.

簡易機械大探索

我們要如何讓工作變得更輕鬆呢？二年級學生一起探索簡易機械的世界！一開始，學生思考如何運用「推」和「拉」等力量，讓日常生活中的工作變得更輕鬆。他們分享自己的想法，並針對生活中遇到的各種問題，想出不同的解決方法。透過探索，學生發現簡易機械能讓許多工作變得更加容易。

接著，學生在校園裡展開一場「簡易機械尋寶活動」！他們仔細觀察身邊的各種物品與工具，尋找簡易機械的例子，例如槓桿、輪軸、滑輪、斜坡和螺絲。

簡易機械大顯身手

學生接受一項有趣的挑戰：找出教室裡一項可以變得更輕鬆的任務，接著親手設計並製作自己的機械。他們結合一種或兩種簡易機械，想辦法解決所發現的問題。在製作過程中，學生不斷測試自己的想法，觀察哪些方法有效，並進一步改良設計。透過這次動手實作的探索，學生發現簡易機械能幫助我們更輕鬆地移動、抬起、推、拉和搬運物品。

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1

ASK + IMAGINE
提問 + 創思

2

We explored around the school and discovered how do simple machines make our jobs easier.

我們在校園裡展開探索，發現簡易機械如何讓我們的工作變得更加輕鬆。



3

PLAN
計畫

4

We planned ways how to make our tasks easier in the classroom. 我們一起思考並規劃如何讓教室裡的任務變得更加輕鬆的方法。



4

CREATE
創造

5

We built simple machines to make the classroom tasks easier.

我們動手製作簡易機械，讓教室裡的任務變得更加輕鬆。



5

IMPROVE+PRESENT
改進+展現

6

We tested and improved our simple machines to make our jobs easier.

我們測試並改良自己製作的簡易機械，讓工作變得更加輕鬆。

