The KCFS Gazette
Kang Chiao International School, Hsinchu Campus, International Department
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Circuits

電路板

Understanding Electricity

Students explored how electrical circuits work by learning about the flow of current and the role of components such as wires, switches, and bulbs. They also discovered why buildings need electricity, including how it powers lights, appliances, and supports our daily activities. To deepen their understanding, students investigated real-world issues like power outages and discussed how these can impact our everyday lives.

Circuit Building

Students explored electricity through fun hands-on experiments using bulbs, batteries, and even lemons. They tested which materials conduct electricity and which are insulators, making predictions along the way. They also built simple, series, and parallel circuits, observing how each setup changed the flow of electricity. Seeing a bulb light up from their own work was a highlight! These activities helped students better understand electrical concepts and feel more confident in creating their own systems.

Designing Solutions for the Community

Students used their learning to design and build model buildings for a community. They created simple power sources to make them work. Like young engineers, they thought about people's needs and how energy flows. Their projects showed creativity and problem-solving while helping them understand how science can solve real-world problems.

理解電力

學生探索電路是如何運作的，並學習電流的流動以及電線、開關和燈泡等元件的作用。他們也瞭解建築物為何需要電力，包括電力如何為燈光與各種電器提供能源，並支撐我們的日常生活。為了加深理解，學生進一步探討現實生活中的議題，例如停電，並討論這些情況如何影響我們的日常生活。

電路搭建

學生透過有趣的手作實驗探索電力，使用燈泡、電池，甚至檸檬進行操作。他們測試哪些材料可以導電、哪些是絕緣體，並在過程中進行預測。學生也建立簡單的串聯與並聯電路，觀察不同設計如何改變電流的流動。看到燈泡能在自己的實驗亮起，是整個活動中的亮點！這些活動幫助學生更深入理解電學概念，並在設計自己的電路系統時更有信心。

為社區設計解決方案

學生運用所學設計，建造社區建築模型，並製作簡單的電源使其能運作。就像小小工程師一樣，他們思考人們的需求以及能源如何流動。他們的作品展現創意與解決問題的能力，同時也幫助他們理解科學如何解決真實世界的問題。

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1 ASK + IMAGINE 提問 + 創思 2

We made batteries, light bulbs and exploring circuits.
我們製作電池、燈泡和探索電路板。

4 CREATE 創造

We built buildings with circuits inside them to power lights.
我們建造帶有電路的建築，讓燈光得以運行。

6 PRESENT 展現

We presented our circuit and building designs.
我們展示電路及建築設計。

3 PLAN 計畫

We made plans for reliable circuits to power our community.
為了提供社區可靠的電力系統，我們制定電路計劃。

5 IMPROVE 改進

We tested and made improvements throughout the process.
過程中我們進行測試與改進。