

Magnets 磁鐵

Exploring Magnetism in Everyday Life

Students explored magnetism through hands-on activities and real-life connections. They learned that magnets can push and pull, attract certain materials, and work without touching. Through simple experiments, they tested ideas and shared observations. They then used this knowledge to design ways to organize the classroom, such as holding posters, managing stationery, displaying lost items, and keeping desks together.

Innovating with Magnets: 21st Century Skills in Action

Students designed plans to solve classroom problems they identified that could be addressed using magnets, and created their solutions together. They tested their designs and implemented them in the classroom, many proudly hanging or using their creations and were happy to see their solutions in action. Throughout this process, the 4 C's of 21st-century learning were clearly demonstrated: they used *critical thinking* to identify problems and test ideas, *creativity* to design practical magnetic solutions, *communication* to share and explain their thinking, and *collaboration* to work effectively as a team. This project also reflected service learning, as students applied their knowledge of magnetism to create solutions that improved their classroom environment and benefited their learning community.

日常生活中的磁力探索

學生透過實作活動以及與生活的連結來探索磁力。他們學到磁鐵可以推與拉、會吸引特定的物質，並且可以在不接觸的情況下發揮作用。透過簡單的實驗，學生測試想法並分享觀察結果。接著，他們運用這些知識來設計整理教室的方法，例如固定海報、管理文具、展示遺失物品，以及讓課桌保持整齊排列。

磁力創新：21 世紀技能的實踐

學生針對在教室中發現的問題進行設計，思考如何利用磁鐵來解決，並共同創作出解決方案。他們測試設計並在教室中實際應用，許多學生自豪地展示或使用自己的作品，並樂於看到解決方案真正發揮作用。在整個過程中，21 世紀學習的「4C」能力被充分展現：他們運用 *批判性思考* 來發現問題並驗證想法，運用 *創造力* 設計實用的磁力解決方案，透過 *溝通* 分享與說明想法，並透過合作有效地進行 *團隊合作*。此專題同時也體現服務學習的精神，學生將對磁力的理解應用於改善教室環境，為師生帶來實際的幫助。

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1 ASK + IMAGINE 提問 + 創思

We took part in hands-on activities to learn more about magnets.
我們透過實作活動進一步了解磁鐵。



3 PLAN 計畫

We identified classroom problems and drew solutions.
我們找出教室中的問題，並畫出解決方案。



4 CREATE 創造

We used different materials and tools to safely create our solutions.
我們使用不同的材料和工具，安全地製作解決方案。



5 IMPROVE 改進

We tested our designs and made improvements.
我們測試設計，並進行改進。

