

Beat the Flood 戰勝洪水

Keeping Homes Dry

This term, Grade 4 explored how to keep homes safe and dry when nature gets a little too watery. Students looked at how different structures can be used in different ways to help a building stay safe during a flood.

Worldwide Solutions

Students looked at how people around the world solve this problem. They explored ideas like building houses on tall stilts to stay above the water or using floating bases so the home rises with the flood. They also tested materials like clay and craft sticks to see which ones were the most soak-proof.

The Flash Flood Test

Teams built their own model houses and tested them in a classroom flash flood. After the water hit, they checked for leaks to see what worked and what needed a quick fix. It was a great way to practice solving real-world problems with critical thinking.

保持房屋乾燥

四年級學生探討當大自然帶來過多雨水時，如何讓房屋保持安全與乾燥。學生研究各種不同的建築結構，以及它們如何幫助房屋在洪水期間維持安全。

世界各地的解決方案

學生瞭解世界各地的人們如何解決這個問題。他們探討許多創新的方法，例如將房屋建在高腳柱上，使房屋高於洪水水位；或使用漂浮式地基，讓房屋能隨著水位上升而漂浮。他們也測試黏土、手工木棒等材料，看看哪些材料最能防水、防滲漏。

暴洪測試

各小組設計並建造自己的房屋模型，接著在教室模擬的暴洪環境中進行測試。洪水來襲後，他們檢查模型是否漏水，以瞭解哪些設計有效，以及哪些部分需要進一步改進。這是一次讓學生融入智慧思考，並實踐解決現實生活問題的絕佳體驗。

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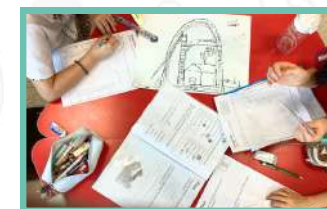
1 ASK + IMAGINE 提問 + 創思

We learned about floods and tested various materials.
我們學習洪水並測試各種材料。



3 PLAN 計畫

We drew designs for a flood-proof house using isometric drawing.
我們運用等角繪圖法繪製一座防洪房屋的設計圖。



4 CREATE 創造

We worked together to build and test our designs.
我們一起合作建造並測試我們的設計。



5 IMPROVE 改進

After testing, we identified areas that could be improved.
測試後，我們找出可以改進的地方。

