

Earthquake Resistant Buildings

抗震建築物

In this project, Grade 3 students became earthquake engineers! They learned how tectonic plates cause earthquakes and explored the different types of earthquake waves before designing and testing ways to keep buildings safer during earthquakes. Students built a base isolation system and a tuned mass damper to reduce shaking, then used a shake table to test their designs with artificial earthquakes — just like real earthquake engineers. The room was filled with excitement as buildings shook and the team's designs were put to the test.

在這項專題中，三年級學生化身為地震工程師！他們學習板塊構造如何引發地震，並探究不同種類的地震波，接著設計並測試各種方法，讓建築物在地震中更加安全。如同真正的地震工程師，學生製作基礎隔震系統和調諧質量阻尼器來減少震動，並使用震動台以人造地震來測試他們的設計，當建築物開始搖晃、各組的設計接受考驗時，整個教室充滿興奮與期待。

1 ASK + IMAGINE 提問 + 創思

We learned about earthquake causes, effects and types of earthquake waves.

我們學習地震的成因、影響，以及各種類型的地震波。



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3 PLAN 計畫

We designed a group plan for our base isolation system.
我們為基礎隔震系統設計小組計畫。

4 CREATE 創造

We built our base isolation system.
我們建造我們的基礎隔震系統。

5 IMPROVE 改進

We tested to see what could be improved.
我們進行測試，看看哪些地方可以改進。

6 PRESENT 展現

We shared our findings with the class.
我們與全班分享我們的發現。

