The G6 KCFS Gazette

Kang Chiao International School, Hsinchu Campus, International Department

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Sustainable Cities
永續城鄉

What is a Sustainable City?

A sustainable city is a city that provides for its residents without preventing future generations to provide for themselves. Sustainable cities are cities of the future, incorporating cutting edge ideas, new types of designs, thoughtful infrastructure, sustainable materials and a wonderful way of life for its residents.

Mission

The mission was to create a 100km² sustainable city from scratch with 100,000 residents. The landscape was based on Hsinchu, from the coast to the city. Students had to create unique solutions for housing, transportation, waste management and renewable energy, all while giving it their own personal touch. We researched sustainability, and how Amsterdam (implementing a circular economy) and Istanbul (creating a massive waste-to-energy plant) are becoming cities of the future. After they had their solutions, they had to wrap it all up with a map of their city!

Result

Amazing! The students really created impressive cities with fascinating designs and unique ideas. They brought it all together in a presentation featuring a Canva design and a hand-drawn map of their city! The KCFS team is very proud of all of the G6 teams because they all worked hard and created interesting sustainable cities for their final 18-week capstone project! Maybe for your next vacation, you can take a trip to your kids' sustainable city!

什麼是永續城鄉？

永續城鄉是能在滿足當代居民需求的同時，也不剝奪未來世代滿足自身需求能力的城市。永續城鄉是未來的城市，融合尖端理念、新穎設計、周全的基礎建設、永續材料，以及為居民提供美好生活方式的城市。

任務

本次任務是從零開始建造一座面積達一百平方公里、可容納十萬名居民的永續城鄉。地景參考新竹，從海岸延伸至都市。學生必須為住房、交通、廢棄物管理與再生能源等領域提出獨特的解決方案，同時融入個人風格。我們研究永續發展，以及像阿姆斯特丹（實施循環經濟）和伊斯坦堡（建立大型廢棄物轉能源工廠）等城市如何朝向未來邁進。在提出解決方案後，他們還需繪製一張城市地圖，整合所有設計構想！

結果

太棒了！學生真的創造出令人驚豔的城市，設計引人入勝，創意十足。他們將所有想法整合在一場精彩的簡報中，簡報採用 Canva 設計，還附上一張親手繪製的城市地圖！團隊老師為所有六年級的學生感到非常驕傲，因為他們都投入大量心力，為這為期十八週的專題製作出充滿創意的永續城鄉！

1 ASK + IMAGINE 提問 + 創思 2

Students learned about the circular economy and Battery Energy Storage Systems (BESS).
學生學習循環經濟以及電池儲能系統 (BESS)。

3 PLAN 計畫

Before they built each aspect of their sustainable city, they planned it out.
在建造永續城市的每一部分前，學生都事先進行周詳的規劃。

4 CREATE 創造

Every student worked hard to create all of the different aspects of their sustainable city.
每位學生都非常努力地完成他們永續城市中的各個不同面向。

5 IMPROVE 改進

After discussing with the class, they rebuilt and changed their city accordingly.
在與全班討論之後，他們根據建議重新建造並調整自己的城市。

House 房子

Transportation 交通

Waste Management 廢棄物管理

Renewable Energy 可再生能源

6 PRESENT 展現

Presentation time! Each team stood up in front of their peers to present their own unique sustainable city!
展示時間到！每一組都站到台前，向同學介紹自己獨一無二的永續城市！