

Paper Repurpose 紙張再利用

Environmentally friendly

It is very important to have habits that will contribute to the environment in a positive way. To set the tone for this project, students were introduced to the term “biodegradable”. Something that is biodegradable (like paper, fruit skin, cotton clothing) can decompose and not become harmful trash to the Earth. Objects that decompose are able to be broken down into dirt, which is good for the Earth’s environment. Objects that are not biodegradable (like plastic and glass) cannot decompose and it will stay on Earth as harmful trash for thousands, if not millions of years. It is important to consider using biodegradable things in our everyday life, such as paper bags or paper straws.

The process

This project is titled “Paper Repurpose”, which is using paper to turn it into something else. The students turned stacks of used paper into a biodegradable pot that can be filled with soil to house a seed and be planted directly in to the soil; this avoids having to use the traditional plastic pots. This project required the students to firstly create pulp from the paper then crate a mold and paste the pulp around it. The bowls took about 24hrs to dry before they could be used for planting or any other purpose for that matter.

環保

對環境有積極貢獻的習慣非常重要。為了定調這個專題，老師向學生介紹「可生物降解」這個詞。可生物降解的物品（如紙張、水果皮、棉質衣物）可以分解，且不會對地球造成有害垃圾。能夠分解的物品可以轉化為土壤，對地球環境有益。而不可生物降解的物品（如塑料和玻璃）無法分解，會成為有害垃圾留存在地球上數千年，甚至數百萬年。在日常生活中考慮使用可生物降解的物品非常重要，比如紙袋或紙吸管。

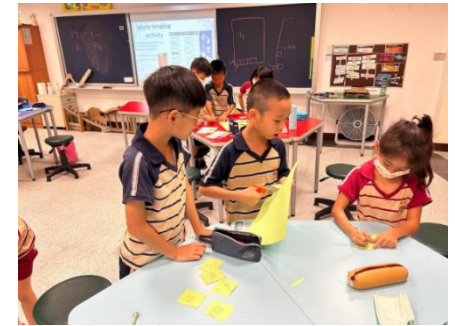
過程

這個專題的主題是「紙張再利用」，也就是利用紙張，並將其轉化為其它物品。學生將成堆的廢紙變成一個可生物降解的罐子，罐子裡裝滿種子，並可直接種植到土壤，這樣就可以避免使用傳統的塑料罐子。這個專題首先要求學生從紙中製造紙漿，然後製作一個模具，並將紙漿黏貼在其周圍。這些碗需要大約二十四小時才能晾乾，並且才能用於種植或與此相關的任何其他用途。

1 ASK + IMAGINE 提問 + 創思

We explored many objects that are biodegradable and non-biodegradable and created a timeline for decomposition.

我們探索許多可生物降解和不可生物降解的物體，並建立分解時間表。



3 PLAN 計畫

We gathered paper for repurposing, soaking and preparing the pulp.
我們收集紙張用於重新利用、浸泡和準備紙漿。



4 CREATE 創造

We were able to use the wet moldable paper material to create it into a circular pot for plants.
我們能夠使用濕的可塑紙材料將其製成圓形植物盆。



5 IMPROVE 改進

After the paper dried, we carefully removed the mold from the paper bowls.
紙乾後，我們小心地從紙碗上取下模具。

