

Paper Repurpose 紙張再利用

Environmentally friendly

Establishing environmentally friendly habits is crucial. To kick off this initiative, students were introduced to the concept of "biodegradable." Biodegradable items, like paper, fruit peels, and cotton clothing, can naturally decompose without posing a threat to the environment. When objects decompose, they break down into soil, benefiting the Earth's ecosystem. In contrast, non-biodegradable materials, such as plastic and glass, do not decompose and can persist as harmful waste for thousands or even millions of years. It is essential to prioritize the use of biodegradable products in our daily lives, such as paper bags or paper straws..

The process

The project, named "Paper Repurpose," involves transforming paper into a new form. Students repurposed stacks of used paper to create biodegradable pots that can hold soil and seeds, eliminating the need for conventional plastic pots. The project entailed students first creating pulp from the paper, then forming a mold and applying the pulp around it. The bowls took about 24 hours to dry before they could be used for planting or any other purpose for that matter.

環保

建立環保的習慣非常重要。為了定調這個專題，老師向學生介紹「可生物降解」這個概念。可生物降解的物品，如紙張、水果皮、棉質衣物，可以自然分解，且不會對地球造成傷害。當物品分解時，他們轉化為土壤，對地球環境有益。而不可生物降解的物品，如塑膠和玻璃，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。在日常生活中優先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，罐子可以裝土壤和種子，這樣就可以避免使用傳統的塑膠罐子。這個專題首先要求學生利用回收紙製造紙漿，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，才能用於種植或與其他相關用途。

1

ASK + IMAGINE
提問 + 創思

2

We explored many uses for recycled paper as well as the difference between biodegradable and non-biodegradable.

我們探索了很多回收紙的用途，以及可生物降解和不可生物降解的不同。



4

CREATE
創造

1

It was not so simple to make the bowl, we needed the paper to be just wet enough to stick to the mold.

製作碗並不簡單，我們必須讓紙濕到可以黏在模型上。



3

PLAN
計畫

1

We gathered used paper to soak in water with salt and a little bit of flour.

我們收集回收紙，加入鹽和一些麵粉浸泡在水中。



5

IMPROVE
改進

1

We made sure our bowls were intact before placing it in a warm area to dry out.

我們在把碗拿到溫暖的地方乾燥之前，確認碗沒有破損。