

Building Rain Gauges 製作雨量計

Introduction

Does it rain where you live? How often does it rain? How much does it rain? These are all questions that all of us have asked at some point in time. Our third graders have done a project to answer these questions, especially the last one – How much rain falls in our area in a given amount of time?

Measuring Rain

The students learned about measuring weather and the use of weather instruments through hands-on learning. They began with a lab to identify wind direction. The topic culminated with a challenge where the students had to build and test rain gauges. They then reflected on ways to improve their rain gauges, based on the results of their testing.

Real world Application

Through investigation, the students learned about the effect of pollution on our water resources. By applying their knowledge, they learned how to predict when it will rain and why Water Resource Engineers play such an important role in our communities.

主題介紹

你住的地方會下雨嗎？多久下雨一次？下多少雨呢？我們在某些時間總會想起這些問題。三年級學生這次的專題可以回答這些疑問，尤其是最後一個問題——我們的地區在特定的時間內會下多少雨呢？

測量雨量

學生學習測量天氣並實際操作測量工具。最初他們學習辨認風向，而該主題的最終目標為學生製作和測試雨量計。接著，根據測試結果，思考能如何改進雨量計。

生活應用

通過調查，學生了解污染對水資源的影響。透過運用課堂所學，他們學會預測何時下雨，以及為什麼水資源工程師在我們的社區中扮演如此重要的角色。



ASK + IMAGINE
提問 + 創思



How can we measure the rainfall?
我們要如何測量雨量？



PLAN
計畫

Sketching our rain gauge prototypes.
繪製出我們的雨量計原型。



CREATE
創作

We tried different plastic containers to
make our rain gauges.
我們試了不同的塑膠容器製作雨量計。



IMPROVE
改進

We measured the rain we collected
during a given amount of time, recorded
the quantity, and shared it with our
classmates.

我們測量了在指定時間內收集的雨水，
紀錄雨水量，並和同學分享。

