

April 2025

## Weather Instruments 氣象儀

### Meteorology

Meteorology is the study of Earth's atmosphere, focusing on temperature, moisture, precipitation, air pressure, and wind patterns. As climate changes become more pronounced, careers in meteorology are increasingly in demand. Introducing Grade 3 students to weather-related challenges helps develop their problem-solving skills while deepening their understanding of the natural world.

### Creating Instruments

Students took on the role of meteorologists by gathering and analyzing weather data. To make accurate predictions, they first learned the fundamentals of weather and forecasting. Each class constructed essential instruments, including an anemometer, barometer, wind vane, and rain gauge.

The goal was to collect and interpret data from these tools and present their findings graphically. This hands-on project encouraged exploration, collaboration, and critical thinking as students tested their instruments and applied their knowledge in a real-world context.

### 氣象學

氣象學是研究地球大氣層的學科，主要關注溫度、濕度、降水、氣壓和風向等現象。隨著氣候變化的影響日益明顯，氣象學領域的職業需求也不斷增加。讓三年級學生瞭解與天氣相關的挑戰，有助於培養他們的問題解決能力，同時加深他們對自然世界的理解。

### 建立儀器

學生們扮演氣象學家的角色，收集並分析天氣數據。為了做出準確的預測，他們首先學習氣象和預報的基本原理。每堂課都會製作一些基本儀器，包括風速計、氣壓計、風向標和雨量計。

這次的目標是收集並解釋來自這些工具的數據，並以圖表的形式呈現結果。這個手做實驗專題鼓勵學生進行探索、合作和批判性思考，並在實際情境中測試他們的儀器和應用知識。

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### 1 ASK + IMAGINE 提問 + 創思

We learned about meteorologists and the important task they have to measure and forecast the weather. 我們瞭解氣象學家以及他們測量和預報天氣的重要任務。



### 4 CREATE 創造

We built our instruments and tested them outside to collect some data for our weather report. 我們製作氣象儀器，並在戶外進行測試，以收集天氣報告的數據。



### 3 PLAN 計畫

We planned out our weather station and how we were going to use the different materials. 我們規劃氣象站以及如何使用不同的材料。



### 6 PRESENT 展現

We presented the weather data we collected throughout the project and explained how the instruments work. 我們展示在整個專案中收集到的天氣數據，並解釋這些氣象儀器的運作原理。

