

January 2026

## Water Collectors

### 集水器

#### Exploring Water

We began by exploring the water cycle—how water moves from clouds to rain, flows across the land, and eventually returns to the sky. Students learned that when there is very little rain over a long period of time, it is called a drought. During a drought, there is not enough water for people, plants, and animals. Through this learning, students discovered that although water continuously moves through the cycle, clean and usable water is limited and precious. This helped them understand why saving water and finding ways to collect it is so important for the future.

#### Designing Water Collectors for the Future

With the goal of helping people, plants, and animals have access to water, students participated in discussions and hands-on investigations about water conservation. Using everyday materials, they designed and built simple rainwater collectors, testing their ideas, solving problems, and improving their designs along the way. Through this project, students developed curiosity, creativity, teamwork, and a sense of environmental responsibility as they worked like young engineers to help protect our planet's water resources.

#### 探索水資源

我們從探索水循環開始，瞭解水如何從雲降下形成雨水，流經陸地，最終又回到天空。學生學習到，當在很長一段時間內降雨量非常少時，這種情況被稱為乾旱。在乾旱期間，人類、植物和動物都沒有足夠的水可使用。透過這些學習，學生發現，儘管水在水循環中不斷流動，但乾淨且可使用的淡水資源是有限而珍貴的。這幫助他們理解，為什麼節約用水以及發掘更多收集乾淨水的方法對未來如此重要。

#### 替未來設計集水器

為了幫助人類、植物和動物取得水資源，學生透過參與節約用水的討論與手作活動來探究。他們利用日常材料設計並製作簡單的雨水收集器，在過程中不斷測試想法、解決問題，並改進自己的設計。透過這項專題，學生就像小小工程師般，在合作的過程中培養了好奇心、創造力、團隊合作精神，以及對環境的責任感，共同為保護地球的水資源而努力。

#### 1 ASK + IMAGINE 提問 + 創思

We explored the water cycle and learned about droughts.

我們探索水循環及瞭解什麼是乾旱。



#### 3 PLAN 計畫

We tested different materials to help us decide which ones to use in our plan.

我們測試了不同的材料，來幫助我們決定在計畫中要選用哪些材料。



#### 4 CREATE 創造

We worked together to create our water collectors.

我們相互合作一起創造集水器。



#### 5 IMPROVE 改進

We tested our designs and improved them based on what we learned. 我們測試設計，並根據所學到的內容加以改進。



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