

September, 2025

Living and Non-Living Things

生物和非生物

Characteristics of living and non-living things

Grade 1 students explored the differences between living and non-living things around them. They learned that living things, such as plants and animals, need water, sunlight, air, and food to grow and survive, while non-living things, like rocks and toys, do not. Through discussions, sorting activities, and a fun nature walk, students were able to point out examples of both in their surroundings.

Plants in Space

After understanding the basics, students began more hands-on activities. They observed how plants need air, water, and sunlight to sprout, grow, and change over time. These observations showed them directly how living things depend on certain essentials. The project then moved to a bigger question: *Can plants grow in space?* Students learned that plants can grow in space, but they need special help because space has no sunlight, soil, or fresh air. Scientists use special equipment to provide artificial light, water, and air so plants can survive. To experience this idea, students built their own mini greenhouses. These simple devices supported plant growth and showed how scientists grow plants in space.

Through this project, students discovered that while plants can grow in different environments, including space, they always need the same basic things to live. The activities gave them a fun and hands-on way to connect what they learned about living and non-living things with real-world science.

生物和非生物的特徵

一年級學生探索生活周遭生物和非生物之間的差異。他們瞭解到植物和動物等生物需要水、陽光、空氣和食物才能生長和生存，而岩石和玩具等非生物則不需要這些元素。透過討論、分類活動和走訪大自然，學生能夠點出周遭生物和非生物的例子。

太空植物

瞭解基本概念後，學生開始進行更多實作活動。他們觀察到植物需要空氣、水和陽光才能發芽、生長並隨時間改變。這些觀察讓他們直接看到生物如何依賴某些基本元素。接著，專題進入一個更大的提問：「植物能在太空中生長嗎？」學生瞭解到植物確實可以在太空中生長，但需要特殊的幫助，因為太空沒有陽光、土壤和新鮮空氣。科學家使用特殊設備提供人造光、水和空氣，讓植物得以存活。為了體驗這個概念，學生製作自己的迷你溫室。這些簡單的裝置支持植物生長，也展示科學家如何在太空中栽培植物。

透過這項專題，學生發現到，雖然植物能在包括太空在內的不同環境中生長，但它們始終需要相同的基本條件才能存活。這些活動提供一個有趣且動手操作的方式，讓他們將對生物與非生物的認識，與現實世界的科學知識連結起來。

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1

ASK + IMAGINE
提問 + 創思

2

We used a variety of sorting games and activities, as well as our 'Nature Walk', to learn about living and non-living things. 我們透過各種活動及「走訪大自然」來了解生物和非生物。



3

PLAN
計畫



The students worked together and helped each other in every stage of the project. 我們在計畫的每個階段互助合作。



4

CREATE
創造



Extreme focus was on display as we built our greenhouses. 我們非常專注地建造溫室。



5

IMPROVE
改進



We compared our greenhouses, and discussed how we will take care of our seedlings. 我們比較彼此的溫室並討論如何照顧幼苗。

