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September, 2022

Ant Colony

Life Cycle

There are very few creatures that can compete with the work ethic of ants, if any. Considering their size and lifespan, ants are relentless in their pursuit of colony survival. During the first week of the project, each class had the opportunity to study the life cycle of an ant. This was to ensure that students developed an understanding of an ant's short lifespan and any dangers they face in the outside world.

Living with a purpose

During the planning phase, students focused on how they would establish an ant colony and what type of ants they would find. They studied different ant nest forms from different parts of the world and predicted which of the more than 16,000 species they would find when they went outside. Once we agreed on which ant species it might be, we set about planning the ant farm by gathering materials and building the perfect nest.

Establishing a Colony

Ants can take up to three days to build a suitable network of underground tunnels up to 2 meters long. During this time, they frantically created areas for food, eggs, larvae, and the queen. During the construction phase, we collected the ants and placed them in the environment created for them. While observing the ants, we took time to learn about the different tasks each ant has to perform. It did not take long for the ants to get to work in their new home. The final task was to come up with ways to improve the nest. We all agreed that it needed to be much larger to accommodate an entire colony.

牛命调期

若說到職業道德,能與螞蟻匹配的生物少之又少。以螞蟻的體型及壽命而言,他們可說 是傾注所有在群體生活。在進行專題的第一週,學生們研究了螞蟻的生命週期。在這階段學生了 解了螞蟻短暫的一牛與其遭受到的外在危險。

為意義而生

在計畫過程中,學生專注研究並討論要找哪種螞蟻並建立群體。他們研究了世界上各式 不同的蟻巢,並預設在 16.000 種螞蟻之中,他們有可能在戶外找到哪些螞蟻。一旦選定了螞蟻種 類後,學生們便著手規劃螞蟻農場,收集材料開始打造蟻巢。

建浩蟻群

螞蟻只需要三天就可以建造出一條長達2公尺的地下隧道。在建造的時間內,螞蟻們竭 盡所能建造儲放食物、蟻卵、幼蟲以及蟻后的房間。在建造過程中,學生到戶外抓螞蟻 蟻放到為他們打造的環境中。在觀察螞蟻時,學生們學習並討論螞蟻在不同工作中扮演的角色 螞蟻們到了新家後便開始建造蟻巢。學生的最後一個任務是思考如何改善蟻巢,他們認為需要更 大的蟻巢才足以容納整個完整的蟻群。



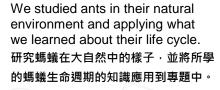
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We explored the life cycle of ants in

preparation for building a colony. 探索螞蟻生命週期,為打造蟻群做準備。



PLAN











We gathered everything we need to create a suitable habitat for the ants.

結合所學的一切,為螞蟻打造合適的棲 息地。





Once we completed the colony, we looked at how we could further improve it to ensure its success. 完成蟻巢後,我們仔細觀察並討論能如 何改善蟻巢。





