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Solar Energy 太陽能

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Connection

The sun is like a giant light bulb and heater in the sky! Imagine you're standing outside on a sunny day. What do you feel on your skin? Warmth! Where does that warmth come from? It comes from the sun. The sun gives off something called energy. One kind of energy the sun gives us is light, which helps us see. Another kind of energy the sun gives us is heat, which makes things warm.

The Sun Energy

Students imagined many ways to use heat energy from the sun. Some of the ideas they came up with included heating our homes and schools, cooking food, drying clothes, fruits and vegetables. It was great for students to use their imaginations and think about these possibilities. They were learning about a very important source of energy.

Solar Oven

In engaging classroom activities, students explored provided materials and brainstormed designs for solar ovens. This hands-on project deepened their understanding of harnessing solar energy for practical uses. They directly observed how sunlight striking a foil flap was converted into heat, slowly increasing the oven's internal temperature and demonstrating the cooking process. This showed a practical way the sun's energy can meet our needs.

連結

太陽就像天空中一個巨大的燈泡和暖爐！想像一下，在一個陽光明媚的日子裡，你站在戶外，你的皮膚會如何感受？溫暖！那份溫暖從何而來？它來自太陽。太陽釋放出一種叫做「能量」的東西。太陽給我們的一種能量是光，幫助我們看見事物。另一種是熱，使物體變暖。

太陽能

學生預想許多利用太陽能的方法。他們提出的一些想法，包含為房屋和學校供暖、烹飪食物、烘乾衣物、水果和蔬菜。學生能夠充分發揮想像力，思考出這些可能性，真是太棒了，因為他們正在學習一種非常重要的能源。

太陽能烤箱

在參與課堂活動中，學生探索所提供的材料，並集思廣益，構思太陽能烤箱的設計方案。這項手作專題加深他們對太陽能實際應用的理解。他們直接觀察陽光照射在鋁箔上是如何轉化為熱量的，從而緩慢地提高烤箱內部的溫度，並演示烹飪過程。這展示太陽能如何滿足我們需求的實用方法。

1

ASK + IMAGINE
提問 + 創思

2

We explored heat energy and how we use it to improve our daily lives. 我們探索熱能以及如何利用它來改善我們的日常生活。



3

PLAN
計畫

4

Collaboration was important to ensure we used the material in the correct way. 相互合作非常重要，以確保我們用正確的方式使用材料。



4

CREATE
創造

5

We had to be accurate with the shape, size, and dimensions of the oven. 我們必須準確地確定烤箱的形狀、大小和尺寸。



5

IMPROVE
改進

6

We made improvements to make the solar oven easy to use. 我們進行修正，使太陽能烤箱更容易使用。

