



# Solar Power Station LEGO Knowledge Points

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How do you test a solar station?

Test Setting Position the Solar Station at a distance of 15 cm (= 6 in.) from the light source. A 60W incandescent light bulb, high performance halogen emitters or any other light source that emits a high amount of IR spectra > 800 nm. Place the Solar Panel under the center of the light source.

How do you measure a light bulb on a Lego solar panel?

Place the Solar Panel under the center of the light source. Optimally the lamps diameter should cover the LEGO Solar Panel and have a parabolic reflector. To help students measure the distance of the bulb in the lamp to the Solar Panel, it is helpful to make a mark on the lamp casing, level with the center of the light bulb. Warning!

How much power does a solar panel generate?

How much power a solar panel generates depends on many factors including where it is positioned and how mobile it is. Some solar panels have special control mechanisms that can adjust them to follow the sun. Build, program and log data to investigate the NXT Solar Station's ability to generate power (W).

How do I change the emeter value on my NXT solar station?

Hint If you wish to change measurement values, select voltage (V) or amperage (A) values using the Sensor dropdown menu: Emeter In - V or Emeter In - A NOTE o If the NXT Solar Station doesn't track or falls behind the light source, it might be because the light source is moving too fast or is too far away.

Now build the Solar Station and investigate its ability to generate power. Build the Solar Station (Building Instruction booklet 2A and 2B, to page 30, step 15). Test the model's functionality. Loosening ...

Student work related to this Practice: In this project, we identified variables that affected the amount of energy we could generate with our solar station. We asked ourselves and classmates ...

Based on the variables students have identified, have them optimize the solar station to maximize the amount of power (W) produced. Have students record findings and describe which ...

Explore solar energy with LEGO MINDSTORMS NXT! Data logging, energy conversion, and light intensity

experiments. Middle School level.

Today I bring to you my second original settlement for my Classic Space collection, featuring the Solar Station. You have seen through my MOCs that there are many spaceships, ...

Well, traditional solar generators often require expensive materials and technical expertise, making them inaccessible to hobbyists and educators. LEGO, on the other hand, offers a modular, low-cost ...

power of the sun Activities o Build the NXT Solar Station and ensure the energy meter is reset prior to each trial. strong light above the panel a distance of at least 15cm. o Record data on ...

A simple little build of nine Lego solar panels on adjustable legs, with a small control / maintenance station.I've been collecting the 1x4 dark blue solar p...

Apply knowledge and skills related to simple machines, mechanisms, solar powered energy, performance, and fair testing.

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