

**WHAT'S UP? EVERYTHING OKAY? I'M LUX, FROM THE SOLAR WORLD. SUCH A STAR!**

In my world, we've learned to take advantage of the electromagnetic radiation that comes from the Sun. But I didn't invent it! This energy has been used and taken advantage of by humans since ancient times, via different technologies that have evolved over time.

You can also use this energy in your world!

I've got so much to tell you!

Did you know that the Sun is the closest star to Earth? Amazing, right?

It's a giant ball of gas that produces significant amounts of energy every day, even though it's 150 million kilometers away.

Solar energy can be used and taken advantage of in two ways:

- To heat water. That's known as thermal solar energy.
- To transform it into electricity, which is known as photovoltaic solar energy.

But how can we capture solar energy? That's what solar panels are for. There are two types of panels:

- The thermal solar panels allow sun rays to be captured, to then convert them into heat. We can use it to heat bath water, for example.
- Photovoltaic solar panels transform the sun's rays into electricity, allowing toys, calculators, TVs and even computers to work using exclusively solar energy.

As you can see, the sun doesn't just warm us up or allow us to go to the beach. Without the sun, Earth would be lifeless!



## **D**ID YOU KNOW...

*... sunlight takes around 8 minutes to reach Earth?*

*... in just one hour, the Sun discharges more energy onto the Earth than the planet consumes in a entire year?*

1. LUX WANTS TO SHOW YOU THAT SOLAR ENERGY IS AMAZING!

What's used to capture solar energy?

Painel

Antenas

Chapéu de chuva

What type of star is the Sun?

A planet

A star

A country

An object that's used to do operations without having to think, and that can be powered by solar energy:

Calculator

Scooter

Notebook

Solar energy can be used as a source of electricity and as a source of:

Cold

Light

Heat

The Sun is a source of \_\_\_\_\_ energy:

Non renewable

Renewable

2. LUX IS VERY STYLISH! DO YOU THINK YOU CAN COPY HIM? DRAW YOUR OWN VERSION OF LUX ON THE SAME PAGE, SO HE SHINES LIKE A STAR.