

## 25 - The Sun

Quick question: How long would it take you to notice if the SUN STOPPED WORKING??? 3 seconds? 30 seconds? 2 minutes? 8 minutes?

If you said 8 minutes - you're right! To be exact, it would take 8 minutes & 20 seconds before you noticed sunlight was no longer reaching the Earth. Thankfully, that won't be happening anytime soon (at least 7 or 8 billion years), which leaves you and your child plenty of time to learn a whole lot of cool things about the closest star to the Earth... the Sun!

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FUN FACT: THE SUN IS ALMOST THE ENTIRE SOLAR SYSTEM...

The sun accounts for 99.86% of all the mass in our solar system. It's about 93,000,000 miles away so it looks pretty small, but over one million planet earths could fit inside the sun. Check out this amazing diagram thanks to our friends at this super cool [YouTube channel](#).

MORE FUN ACTIVITIES:

Have your child LIST all the essential ways the sun is part of our lives. From light that makes plants grow (photosynthesis), to heating the planet, to providing light for outdoor fun, to chasing vampires away! What other fun, creative things can they think of! If they can come up with more than 8, they're a genius!

On this episode you meet Ray - one of the sun's rays. Draw a comic strip of Ray making his way from the sun down to the earth's surface.

Draw or make your own version of a solar system using objects in the house! Try to keep the sizes proportionate - you can find a fun chart showing the sizes [here](#).<sup>1</sup>

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<sup>1</sup> This activity guide is for the Who Smarted? podcast [www.WhoSmarted.com](http://www.WhoSmarted.com)