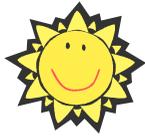


**REVEAL A SECRET MESSAGE ABOUT THE SUN!**

Use the key at the bottom of the page to fill in the blanks beneath each picture.



THE SUN'S \_\_\_\_\_ KEEPS THE \_\_\_\_\_ AND \_\_\_\_\_ GROWING.



THE SUN'S HEAT \_\_\_\_\_ THE \_\_\_\_\_ AND \_\_\_\_\_ TO KEEP THE \_\_\_\_\_ FLOWING.



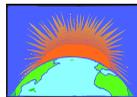
THE SUN WARMS THE SURFACE OF \_\_\_\_\_ UNEVENLY, AND THIS KEEPS THE \_\_\_\_\_ BLOWING.



THE SUN'S ACTIVITY KEEPS THE AURORAS \_\_\_\_\_.



= EARTH



= GLOWING



= LIGHT



= SNOW



= TREES



= PLANTS



= ICE



= WATERS



= MELTS

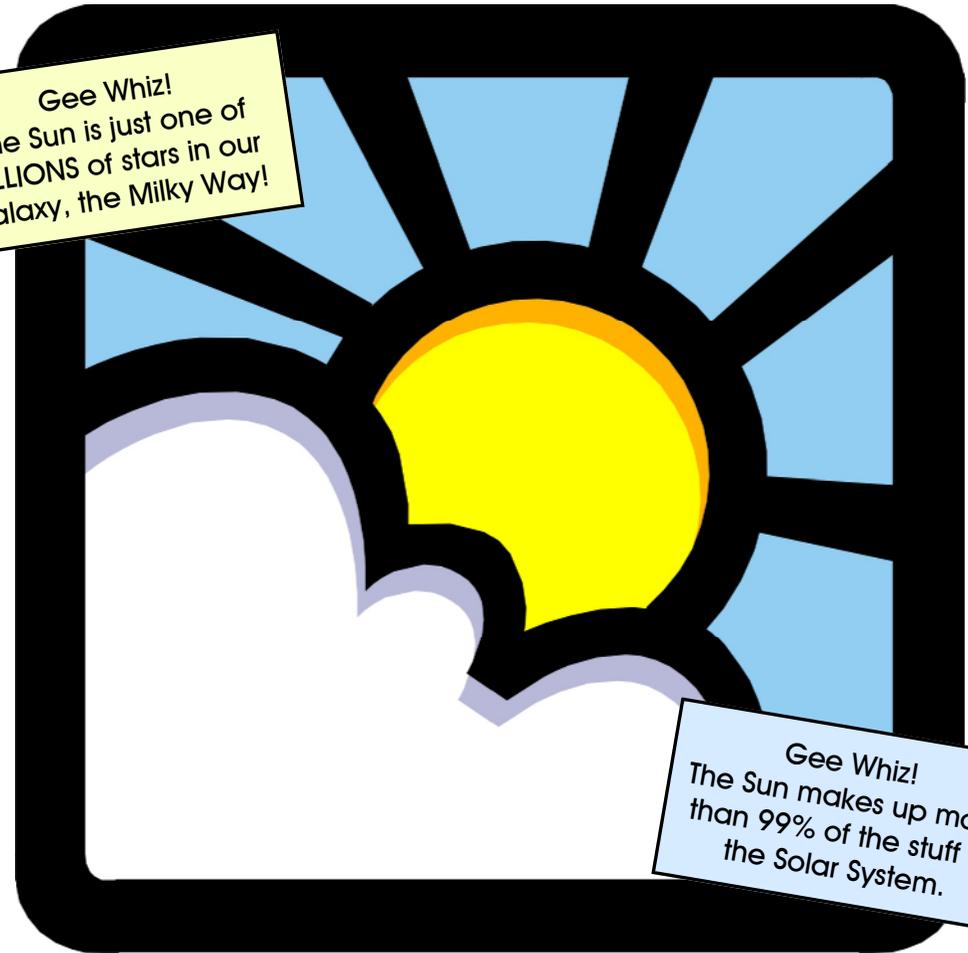


= WINDS

Selected activities from

# A FAMILY GUIDE TO THE SUN

Gee Whiz!  
The Sun is just one of  
BILLIONS of stars in our  
galaxy, the Milky Way!



Gee Whiz!  
The Sun makes up more  
than 99% of the stuff in  
the Solar System.

To download a complete,  
full-color field test version of the Family Guide to the Sun, go to:  
<http://www.spaceweathercenter.org/resources/04/04.html>



# SUN MATH

Solve each question using the Sun symbols, then use the answers to fill-in-the-blank below and learn a cool fact about our nearest star.

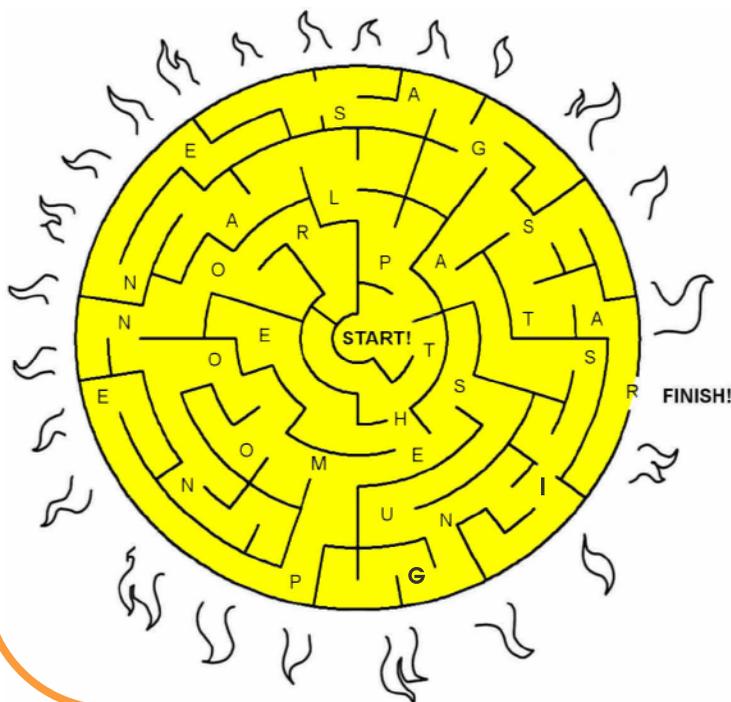
☀️ = 1    🌟 = 2    ☀️ = 3

☀️	+	☀️	-	🌟	=	___	A
☀️	+	🌟	-	☀️	=	___	B
☀️	-	☀️	-	🌟	=	___	C



SOLAR MINNIE

During a total solar eclipse, the Moon appears to completely cover the face of the Sun. This is because the Sun is   A     B     C   times wider than the Moon, and also   A     B     C   times farther away from Earth than the Moon. It's a cosmic coincidence!



### SUN MAZE:

You are a photon of light... Make your way out of the Sun's core and into space! Pick up letters along the way to spell out a special message about the Sun.

## MESSAGE

\_\_\_\_\_

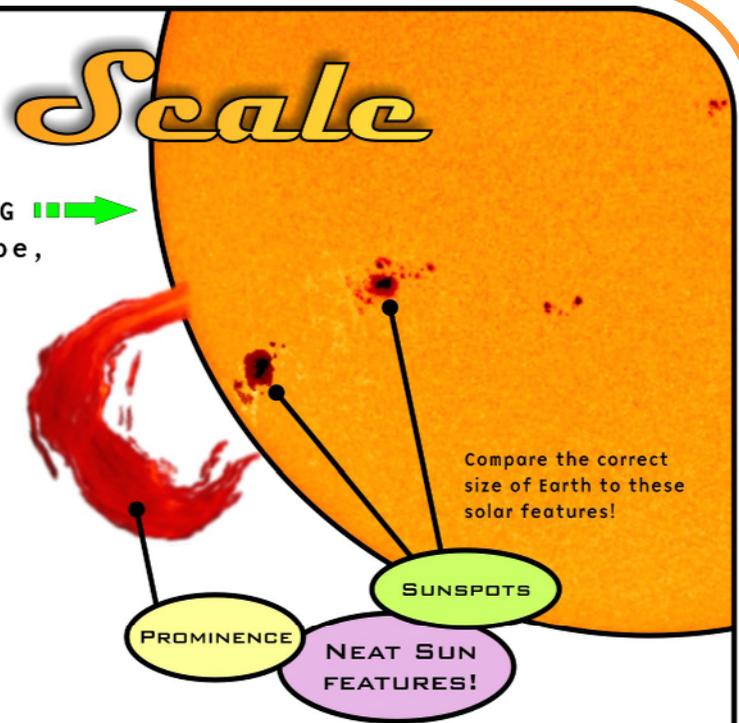
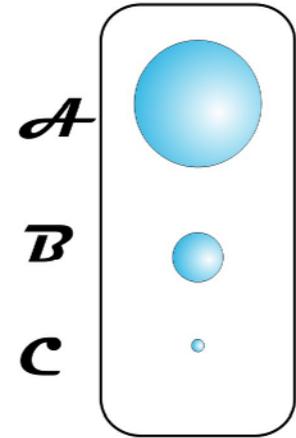
\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_ !

# Sun-Scale

If the Sun were this BIG → what size would Earth be, compared to the Sun?



Compare the correct size of Earth to these solar features!

Answer: Planet C. About 100 Earths would fit across the Sun's face. Jupiter is about 10 times wider than Earth - or about the size of Planet A; Planet B is about the size of Neptune - nearly four times wider than Earth.

### SOLAR MAX



**Like these activities? Want more? Checkout the Family Guide to the Sun and the Space Weather Center!**

The Family Guide to the Sun includes an innovative collection of puzzles, pictures, poetry, and projects, all designed to stimulate enjoyable co-learning experiences between kids aged 6-12 and the caring adults in their lives. In addition, the Guide contains an FAQ and a collection of Gee Whiz Facts to support your understanding of and appreciation for Sun science.

The Space Weather Center website tells the story of storms from the Sun that can have far-reaching effects on Earth - through informative text and educational online games.