



EXPLORE  
**OUR  
UNIVERSE**

**ACTIVITY KIT** —▶

# Garland

Cut out the triangles and tape them (points facing down) along a ribbon or string to spell I LOVE E-A-R-T-H!

Hang your garland across a doorway or window.

I  
Love



E

A

R

!

I

H

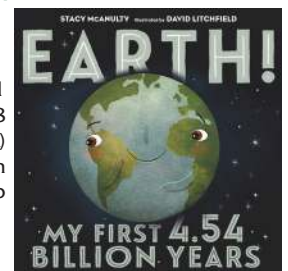
9781250108081

Ages 4-8

Henry Holt and Co. (BYR)

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Children's Publishing Group



# On the Inside

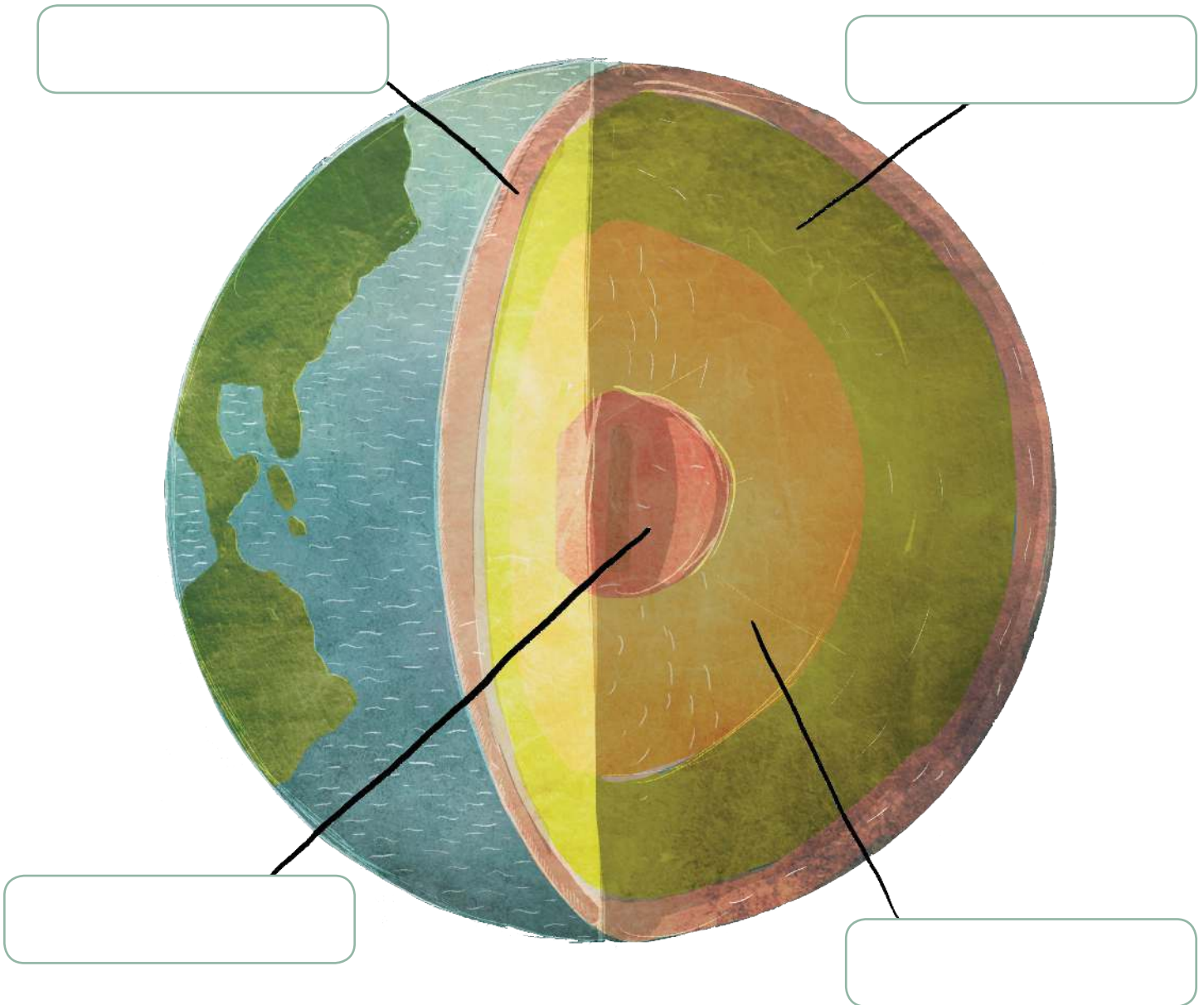
Lots of things might happen to Earth on the surface—Ice Ages, volcanic eruptions, asteroid collisions—but Earth stays the same on the inside. Can you label the four sections of Earth's interior?

CRUST

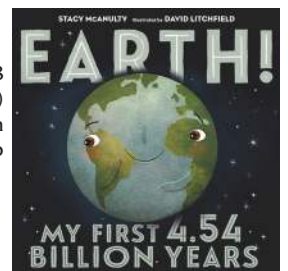
INNER CORE

OUTER CORE

MANTLE



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# Three Cheers for Sun!

Sun, Sun, he's our star.  
Light and heat from afar.

How many syllables are in each line of the sample cheer? Which words rhyme?  
Can you write two new cheers for Sun?

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Give me an **S**!  
Give me a **U**!  
Give me an **N**!



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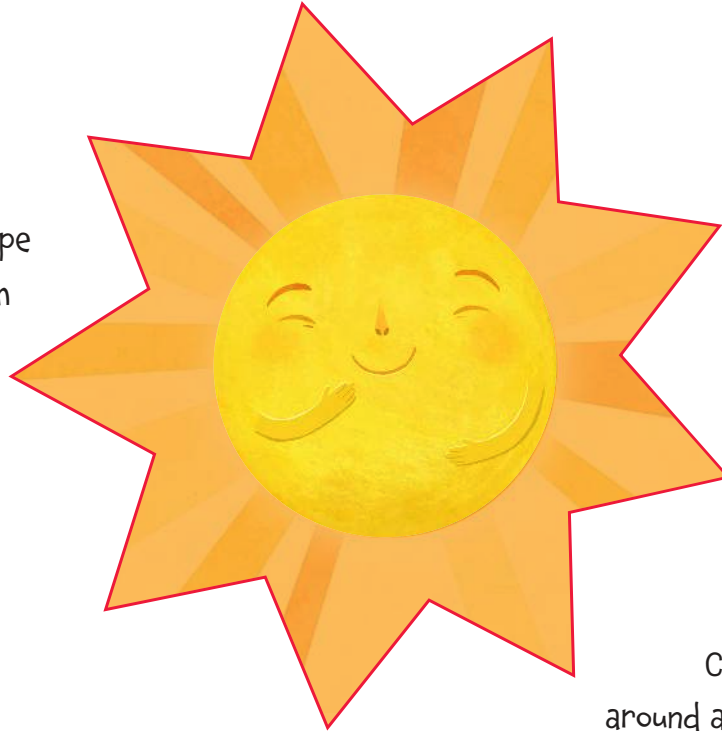




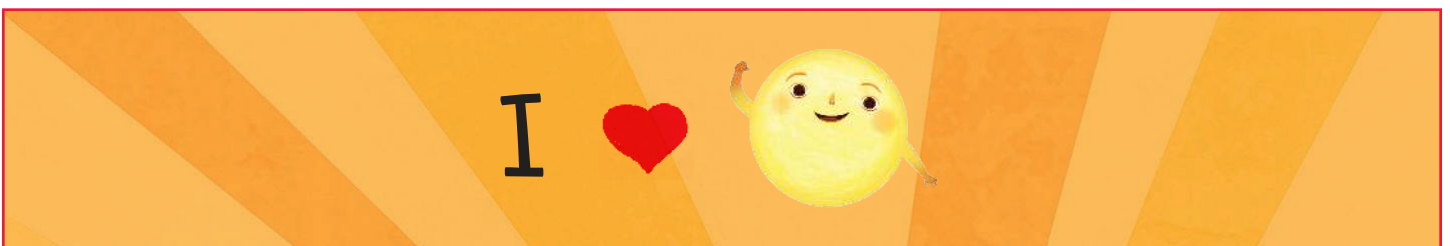
# Star Power

Our Sun is one in a billion and deserves a medal! Wear Sun's medal and the friendship bracelets below to show your love for Sun!

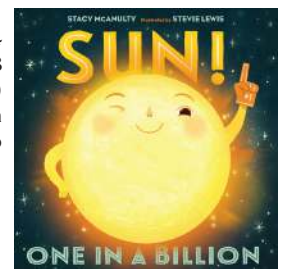
Cut out the medal and tape it to your shirt, or attach a loop of ribbon or string and wear it around your neck.



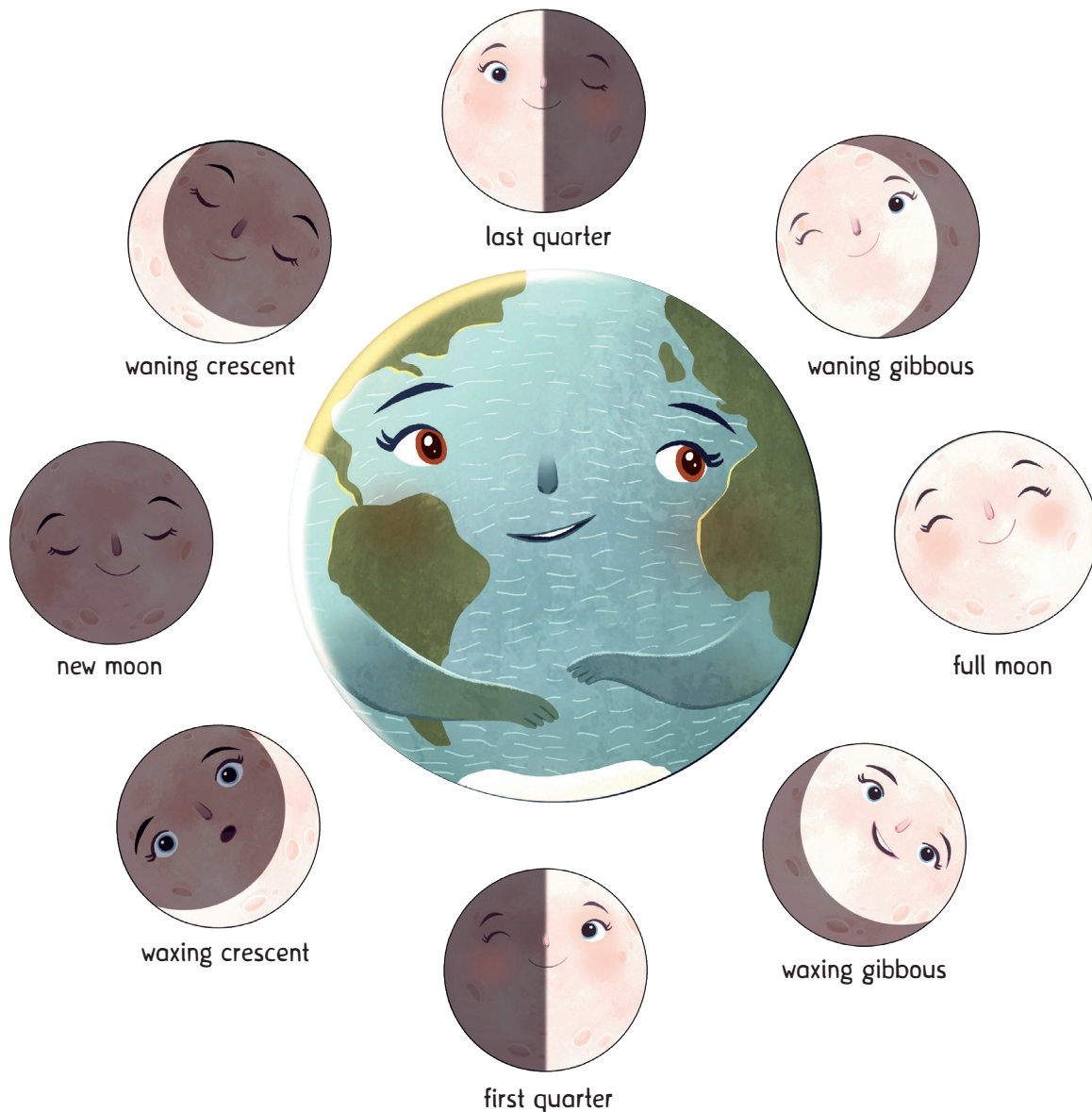
Cut out the bracelets. Wrap around a wrist and tape to secure.



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# Discover all of Moon's phases with Oreo cookies!



## WHAT YOU NEED:

- (8) Oreo cookies, one for each moon phase
- A Popsicle stick or other tool for scraping the frosting

## WHAT TO DO:

1. Separate Oreo cookies carefully, while keeping the frosting intact.
2. After twisting, most of the frosting will be on one side or the other. You can always transfer frosting if needed.
3. Re-create each phase in cookies and frosting to show how Moon changes from new moon to full moon.



**MOON!**  
**EARTH'S BEST FRIEND**  
by Stacy McAnulty; illustrated by Stevie Lewis  
Ages 4-8

**H** HENRY HOLT BOOKS FOR YOUNG READERS  
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# Out of This World Search

Find all the lunar words hidden in the word search puzzle below.

S I M U L P H A S E S O L  
 S A L G I B B O U S J O E  
 C A Y E X P A R T M E C T  
 O I T D A S T N O O M R R  
 G A I E T I U U T E M E T  
 E H V H L S S E E N E S C  
 C Z A N M L S G N O R C S  
 L E R T A R I N C A N E P  
 I T G E E P E T O R D N I  
 P X A V A M U S E A R T H  
 S I I C I E N T I S T E O  
 E N M E T S Y S R A L O S  
 U U F R E W O P O C W E Y

SATELLITE

MOON

EARTH

SUN

PHASES

SOLAR SYSTEM

GRAVITY

UNIVERSE

ECLIPSE

CRESCENT

GIBBOUS



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# LABEL THE LAYERS OF OCEAN!

Can you help Ocean name all the layers of his deep, layered soul?

## WORD BANK

Abyss | Trenches | Sunlight Zone | Midnight Zone | Twilight Zone

I'm a deep, layered soul.

(epipelagic)  
0-200 meters (0-656 feet)

(mesopelagic)  
200-1,000 meters  
(656-3,281 feet)

(bathypelagic)  
1,000-4,000 meters (3,281-13,123 feet)

(abyssalpelagic zone)  
4,000-6,000 meters  
(13,123-19,685 feet)

(hadalpelagic zone)  
6,000 meters  
(19,685 feet)

My deepest spot, at 11,030 meters (36,188 feet), is in the Mariana Trench. I could swallow Mount Everest.

# SPREADING OCEAN LOVE!

Draw and write what you love most about Ocean!

MY FAVORITE THING ABOUT OCEAN IS . . .

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# PLAN YOUR VISIT TO REMARKABLE MARS!

Make a list for everything you would need to travel to Mars!

Oxygen (Mars has just a trace, so make sure you bring your own!)

Water (All the water on Mars is frozen!)

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# SPEND MORE TIME WITH MARS!

Did you know that a day on Mars is 37 minutes longer than a day on Earth?  
Write about and draw a picture of how you would spend your extra minutes!

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# Dwarf Planets Puzzle

Pluto used to be considered the ninth planet in our solar system, but in 2006 astronomers reclassified Pluto as a Dwarf Planet. Not a planet? Not a problem!



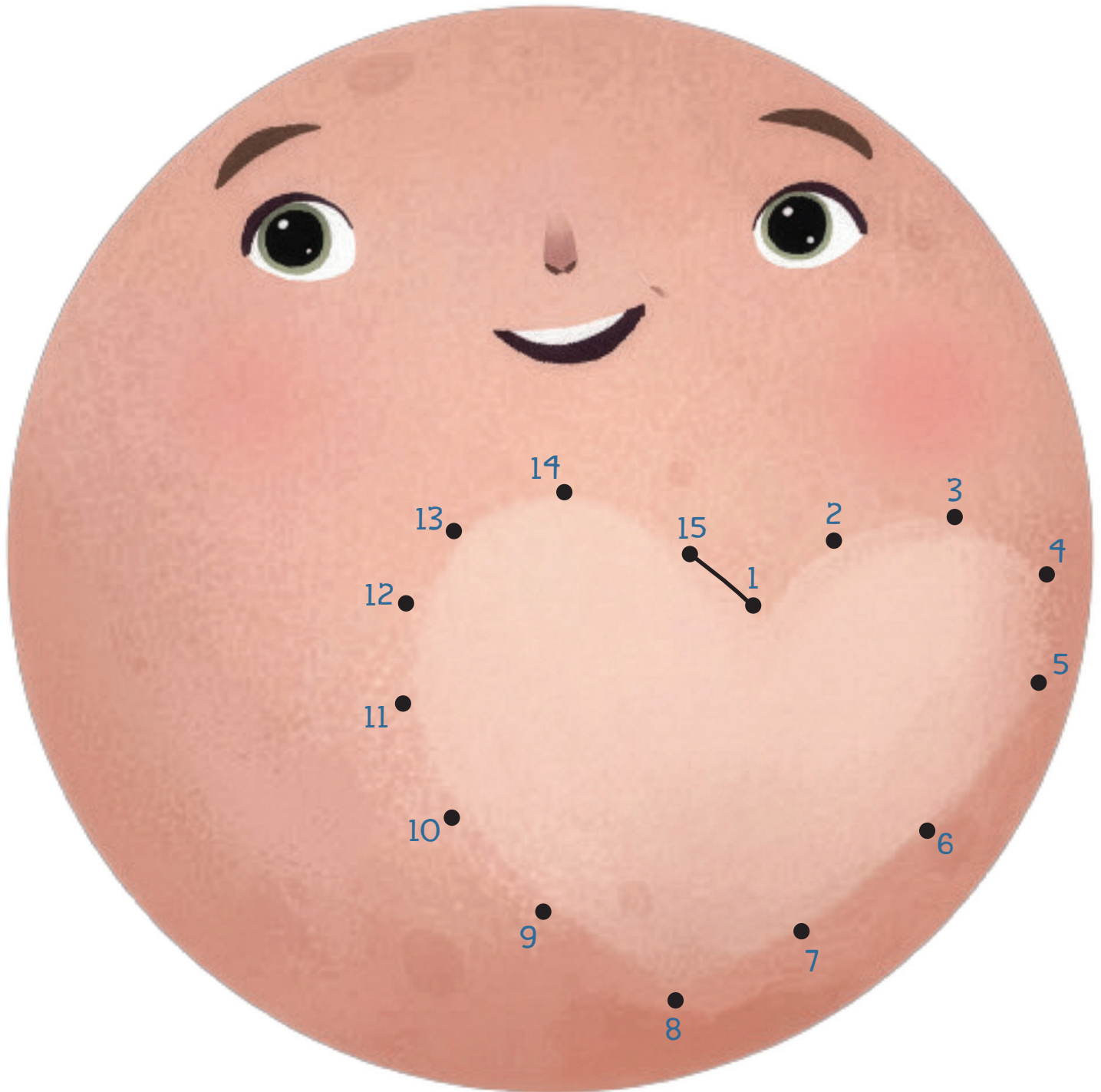
With the help of an adult, cut out the picture along the green lines. Mix up the squares then put the pieces together again so Pluto and his Dwarf Planet pals can party!

**PLUTO!** NOT A PLANET? NOT A PROBLEM! by Stacy McAnulty; illustrated by Stevie Lewis \* Ages 4-8

\* OurUniverseBooks.com \* H \* An imprint of Macmillan Children's Publishing Group

# Connect the Dots

The Tombaugh Regio is a huge area of flat ice on Pluto's surface that's surrounded by mountains of ice. Connect the dots to discover the shape of this unique feature!



Inside the Tombaugh Regio, write some facts you love about Pluto!

# Solar System Roundup!

Our solar system is like a neighborhood. Can you name the planets in order from the closest to our SUN-sational star to the farthest?

SUN

• M \_\_\_\_\_

• V \_\_\_\_\_

• E \_\_\_\_\_

• M \_\_\_\_\_

ASTEROID BELT

J \_\_\_\_\_



S \_\_\_\_\_



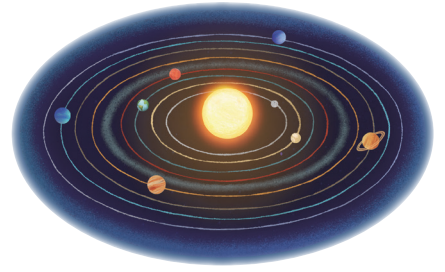
U \_\_\_\_\_



N \_\_\_\_\_

KUIPER BELT

# FAR Out Facts!



Connect each fact to the member of our solar system that it describes.

This big fella is 99 percent of everything in our solar system.

This is the smallest and fastest-orbiting planet in our solar system.

This planet is so hot that it can melt metal! It's stinky, too!

More than 8 billion humans live here!

Rovers and spacecraft from Earth have visited this red planet.

This collection of space rocks orbits between our four terrestrial planets and our four giant planets.

Eleven Earths could fit across this biggest of our giant planets.

This beauty is known for its pretty rings—seven bands of ice and rock that orbit the planet.

Gases on this planet make it appear blue and it rotates on its side!

This planet is the windiest in our solar system!

Lots of dwarf planets, including our pal Pluto, orbit in this belt.

This sphere of icy objects is the farthest edge of our solar system!

Mercury

Saturn

Neptune

Kuiper Belt

Sun

Mars

Oort Cloud

Venus

Asteroid Belt

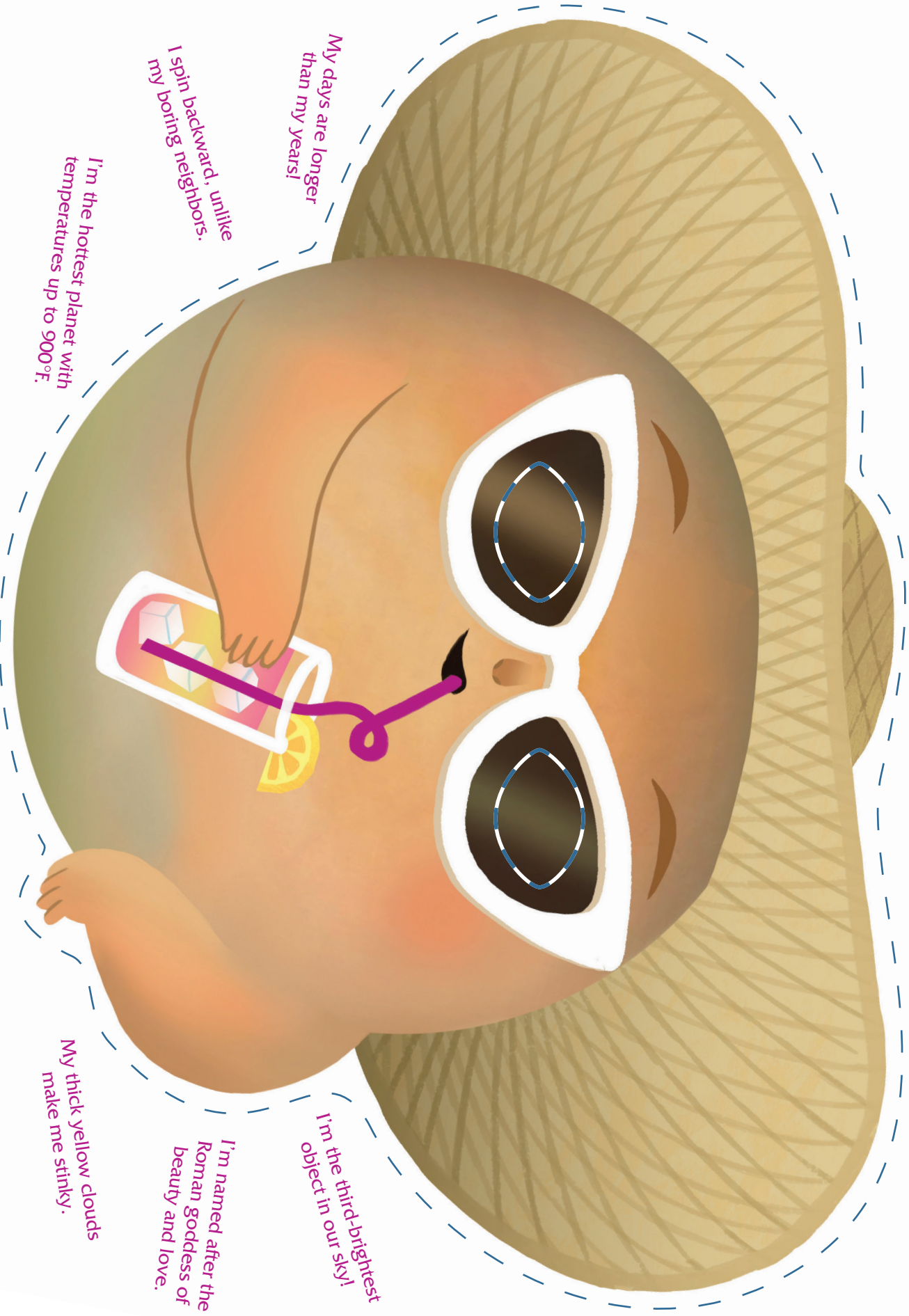
Earth

Uranus

Jupiter

# Venus Mask

With the help of an adult, cut out the mask below, including the eyeholes. Affix a craft stick to the bottom to use as a handle. Amaze your friends with your Venus knowledge!



*My days are longer than my years!*

*I spin backward, unlike my boring neighbors.*

*I'm the hottest planet with temperatures up to 900°F.*

*I'm the third-brightest object in our sky!*

*I'm named after the Roman goddess of beauty and love.*

*My thick yellow clouds make me stinky.*

# Love Poem

Venus is named for the goddess of beauty and love! Write an acrostic poem about Venus, using the letters below to start each sentence or phrase in your poem.



V \_\_\_\_\_

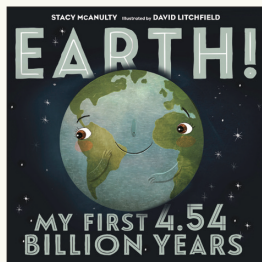
E \_\_\_\_\_

N \_\_\_\_\_

U \_\_\_\_\_

S \_\_\_\_\_

# EXPLORE OUR UNIVERSE



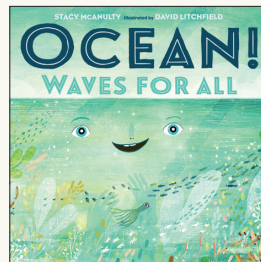
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## MEET THE CREATORS!



**STACY McANULTY** is a lifelong inhabitant of Earth, a frequent Moon gazer, an admirer of Sun (thanks to SPF 55), and the author of over thirty books for children, including *The Miscalculations of Lightning Girl*, which was on 15+ state award lists. As a child, Stacy dreamed of being an astronaut and still hopes to visit Space Camp someday. She lives on Earth in North Carolina with her husband, three kids, and a small pack of dogs.



**DAVID LITCHFIELD** is an illustrator of children's books, including *Miss Muffet, or What Came After* by Marilyn Singer, and is the creator of the award-winning picture book *The Bear and the Piano*. He lives on Earth in the United Kingdom. He has also illustrated a number of picture books for authors such as Ross Montgomery, Andy Stanton, and Sally Lloyd-Jones, as well as book covers for David Almond, Kate DiCamillo, Neil Patrick Harris and many more.



**STEVIE LEWIS** spent four years working in animation and now creates art and illustrates children's books, including *Sun! One in a Billion*, written by Stacy McNulty, and *Lost in the Library*, written by Josh Funk. Stevie lives on the road, furthering her passion for climbing, art, and the outdoors. She gathers inspiration from a variety of places, be it climbing in the high desert in central Oregon, hiking in the wilderness of Alaska, or sharing laughs with fellow travelers around a campfire.

**MARS! EARTHLINGS WELCOME** by Stacy McNulty; illustrated by Stevie Lewis • Ages 4–8 • [OurUniverseBooks.com](http://OurUniverseBooks.com)

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