

GREETINGS, 3RD-5TH GRADE TEACHERS!

And we have liftoff! Ignite your students' excitement about space with these Buzz Lightyear-inspired activities. They're out of this world!



Here's what's included and how to use it:

1. KWL About Space

Use the KWL chart to facilitate a discussion about space. Have students write down everything they know about space in the "K" section. Use an anchor chart to document students' ideas, and have them write down their ideas on their own paper. Then ask students what they want to learn about space. Have them write down all their questions in the "W" section of the chart.

After they complete all the activities on this site, have a discussion with your class about what they've learned. Have them write down that information in the "L" section of the chart. You can write ideas on the anchor chart.

Student Activity 1

SPACE

K	W	L
WHAT I KNOW	WHAT I WANT TO KNOW	WHAT I LEARNED

WeAreTeachers.com/teaching-with-lightyear

2. Mission Log

Print out the mission log and pass it out to students. Encourage your students to make nightly observations of the sky and document their findings in their log. Tell students they can take notes, draw pictures, notate times, or do anything else they'd like to show what they observed in space. You can copy as many as you want and have students keep multiple logs.

MISSION LOG Student Activity 2

LOG NUMBER _____

NAME _____

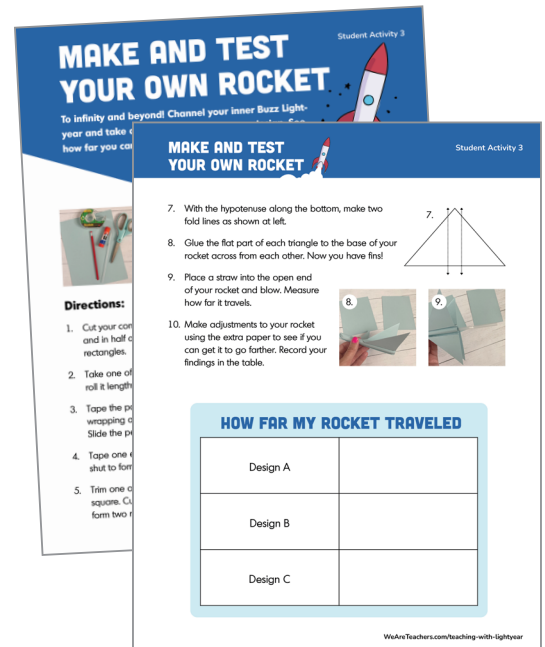
What did you observe?
(Draw or write)

What did you do?

WeAreTeachers.com/teaching-with-lightyear

3. STEM Activity: Make and Test Your Own Rocket

Teacher directions: Students will make simple rockets out of paper with this STEM activity. Do this in class or have students complete it as a fun at-home activity.



4. Flip-Book: Our Solar System

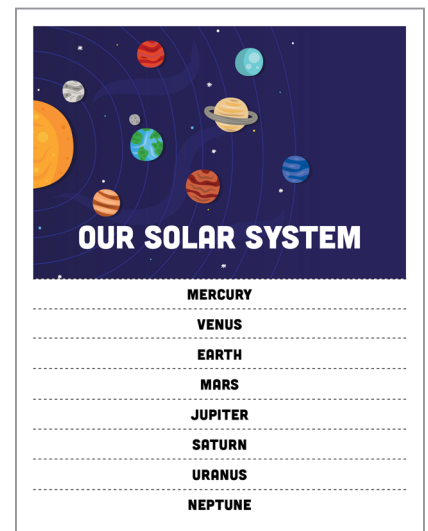
Teacher directions: Print out the flip-book and assemble it for students. Have them use the following websites to search for information that will help them fill in the flip-book:

[Britannica Kids](#)

[NASA Science Space Place](#)

[NatGeo Kids](#)

Invite students to color in the picture of each planet.



Don't miss our interactive Google Slides:

1. Mini Lesson: What's a Light-Year?

Use our Google Slide lesson to teach your students about light-years! You'll find teacher directions in the notes sections for every slide. There's also a slide for students to use as they research information about light-years.

2. Matching Game: Phases of the Moon

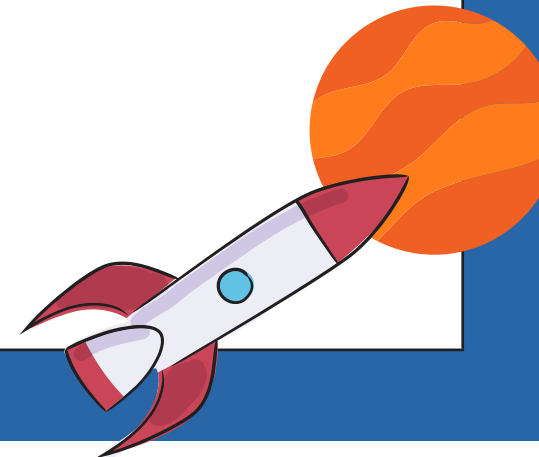
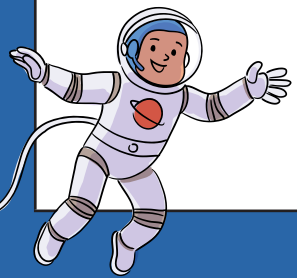
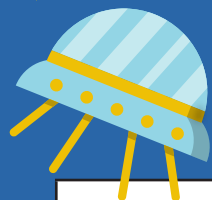
This is a game for students where they match the definition of each moon phase to a picture of each phase. Play the game as a whole group using your interactive whiteboard or assign it as independent work on one-on-one devices.

Enjoy and full speed ahead!

Your friends at WeAreTeachers



SPACE



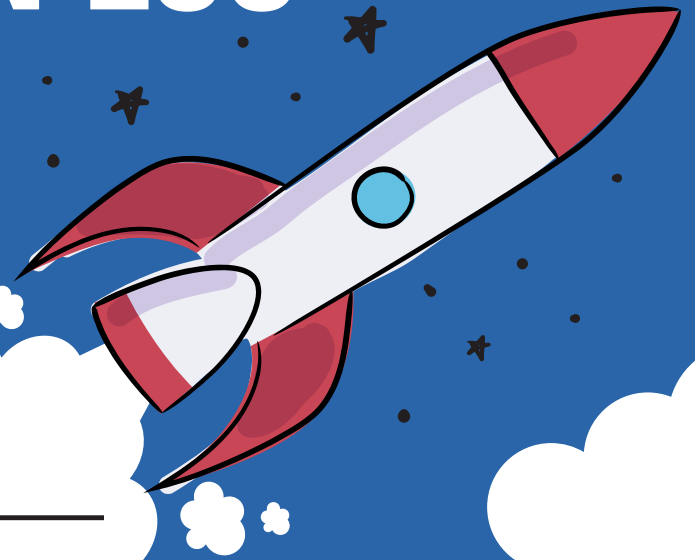
K	W	L
WHAT I KNOW	WHAT I WANT TO KNOW	WHAT I LEARNED

MISSION LOG

Student Activity 2

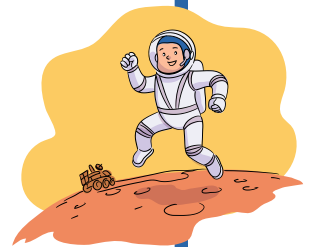
LOG NUMBER _____

NAME _____

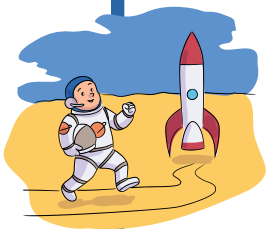


What did you observe?

(Draw or write)

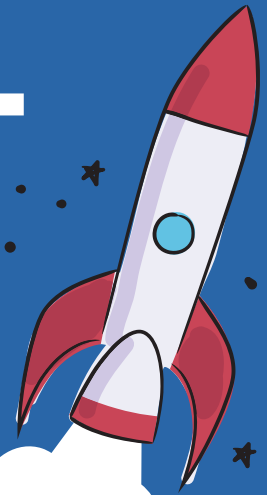


What did you do?



MAKE AND TEST YOUR OWN ROCKET

To infinity and beyond! Channel your inner Buzz Lightyear and take off in a rocket of your own design. See how far you can make it fly!



Materials:

Construction paper
Scissors
Pencil
Tape

Ruler
Straws
Tape measure

Directions:

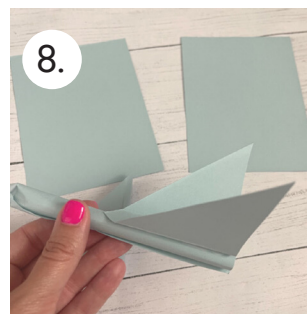
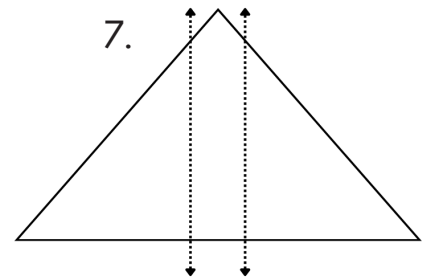
1. Cut your construction paper in half and in half again to get four smaller rectangles.
2. Take one of the small rectangles and roll it lengthwise around a pencil.
3. Tape the paper to itself (like you're wrapping a gift) so it doesn't unravel. Slide the pencil out.
4. Tape one end of the paper cylinder shut to form the nose of your rocket.
5. Trim one of the rectangles into a square. Cut the square diagonally to form two right triangles.



MAKE AND TEST YOUR OWN ROCKET

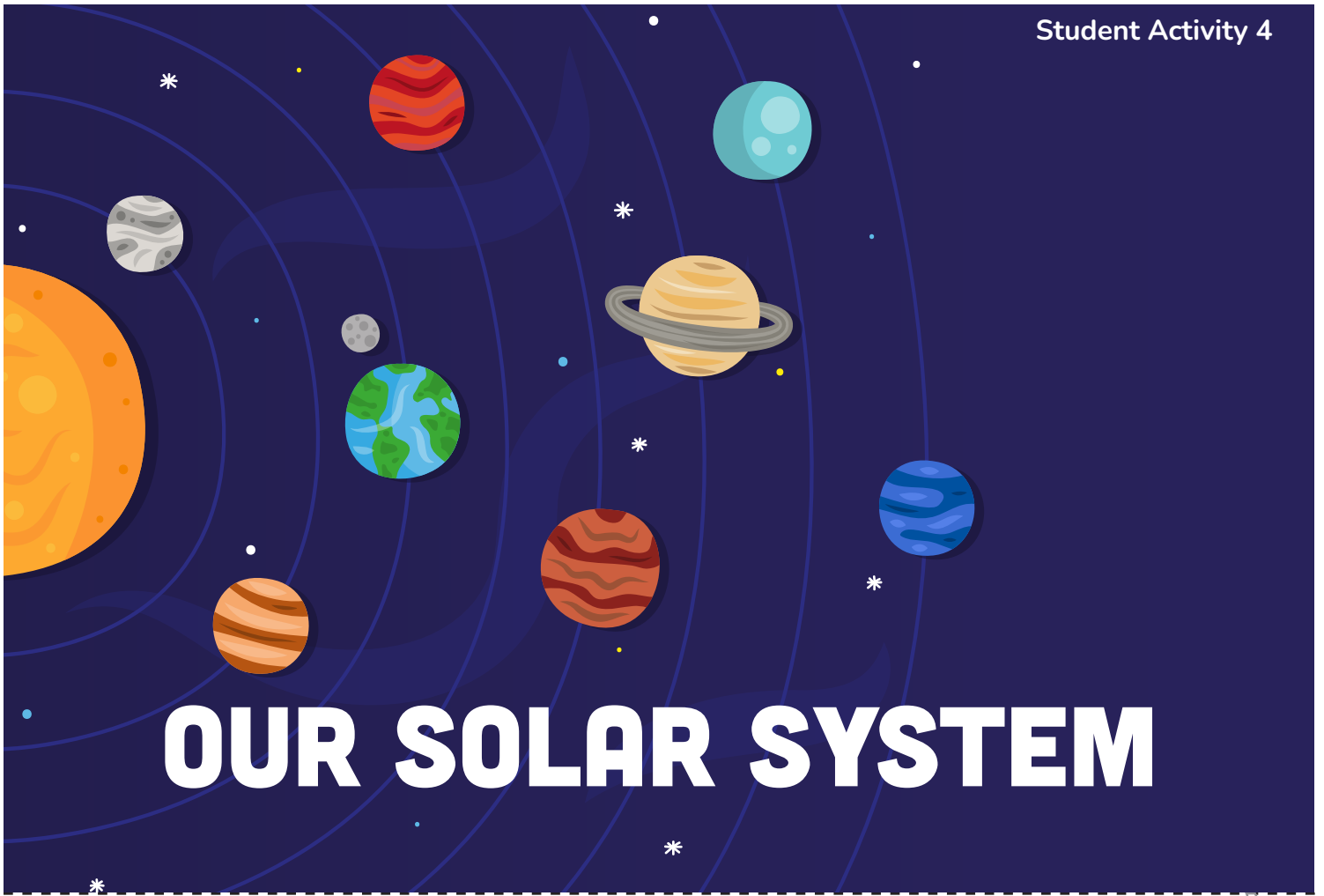


7. With the hypotenuse along the bottom, make two fold lines as shown at left.
8. Glue the flat part of each triangle to the base of your rocket across from each other. Now you have fins!
9. Place a straw into the open end of your rocket and blow. Measure how far it travels.
10. Make adjustments to your rocket using the extra paper to see if you can get it to go farther. Record your findings in the table.



HOW FAR MY ROCKET TRAVELED

Design A	
Design B	
Design C	



OUR SOLAR SYSTEM

MERCURY

VENUS

EARTH

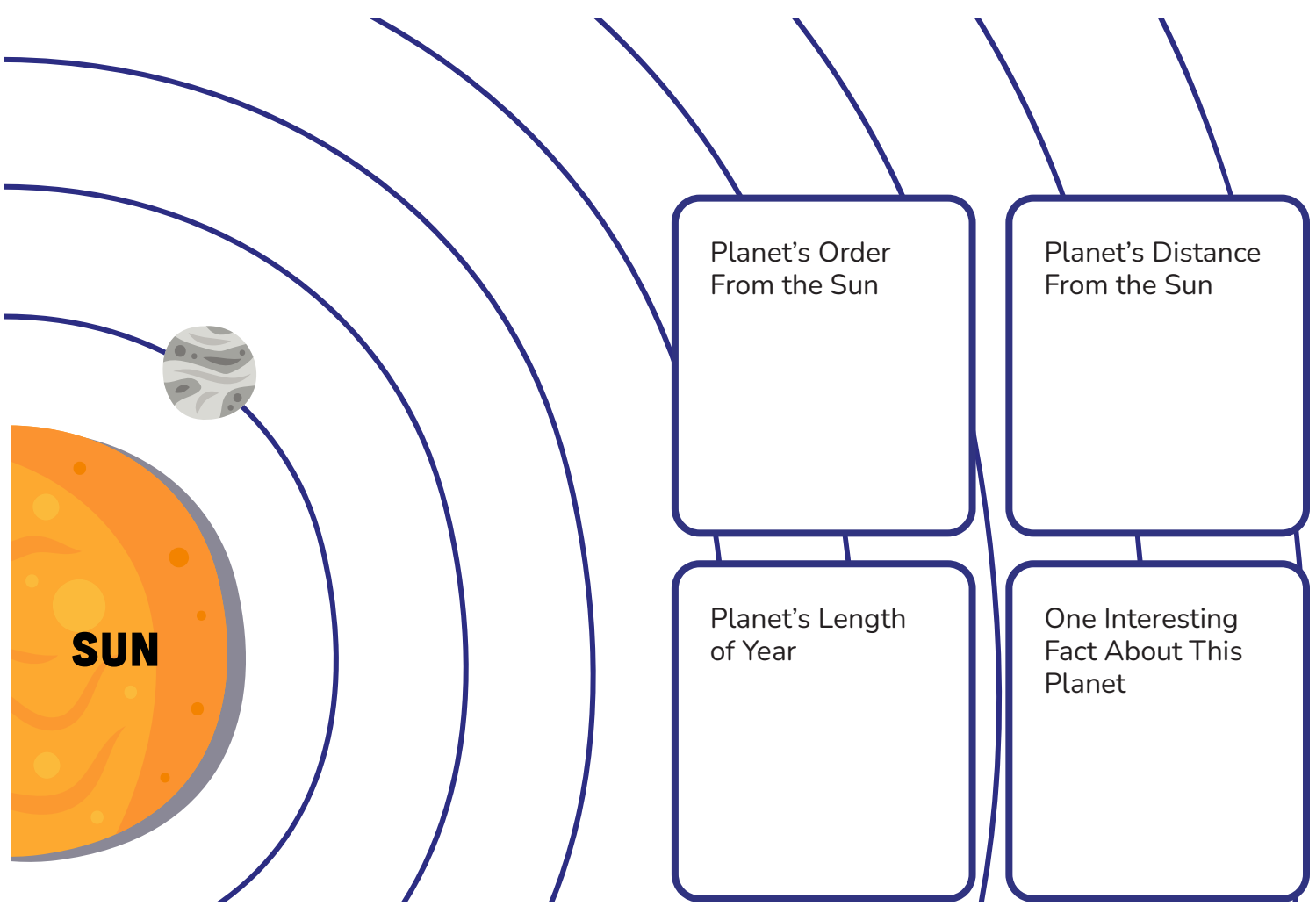
MARS

JUPITER

SATURN

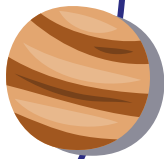
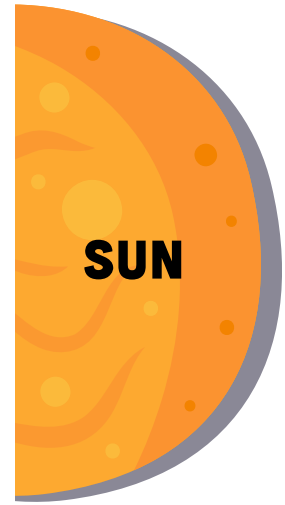
URANUS

NEPTUNE



MERCURY





Planet's Order
From the Sun

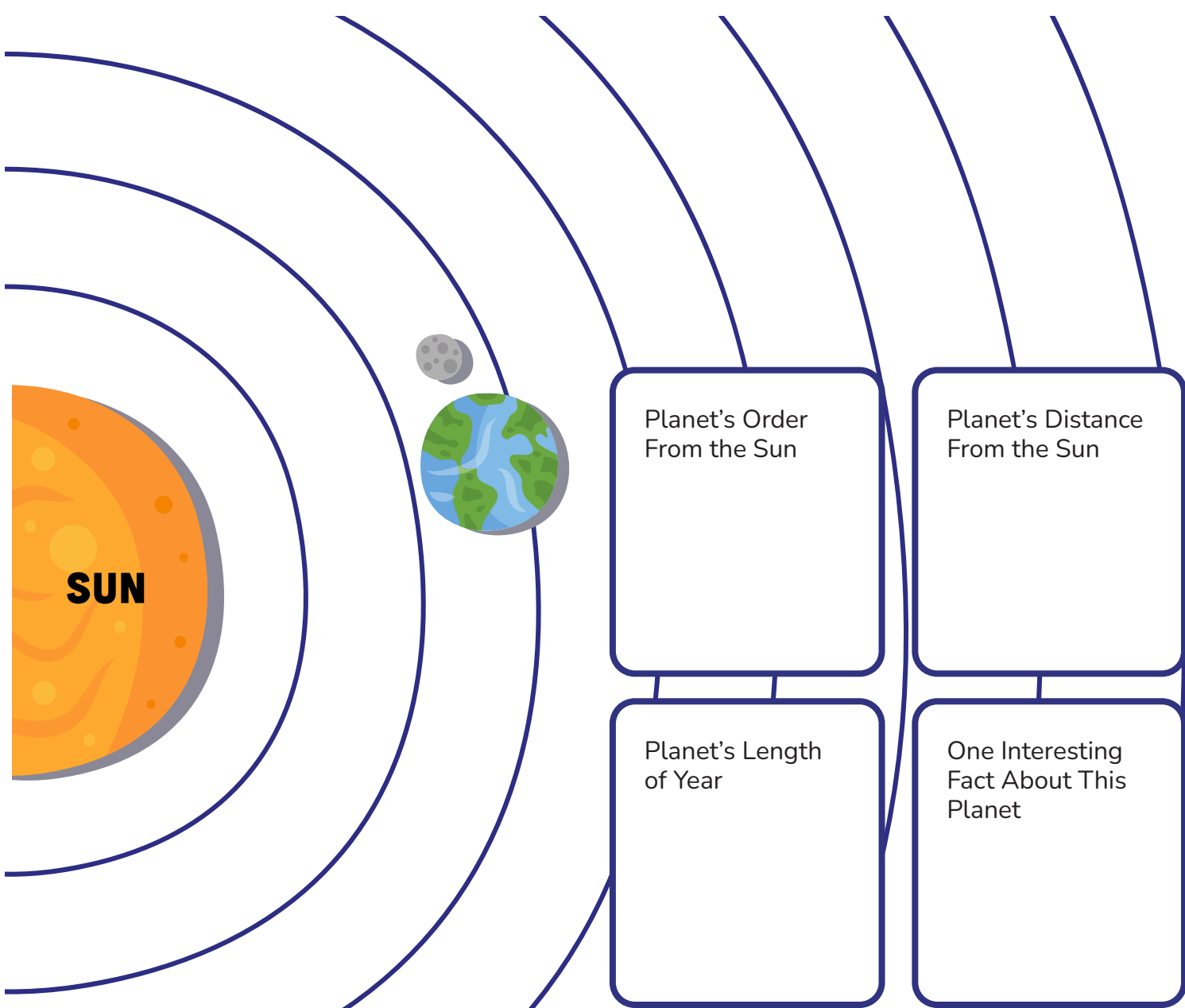
Planet's Distance
From the Sun

Planet's Length
of Year

One Interesting
Fact About This
Planet

VENUS





SUN

Planet's Order
From the Sun

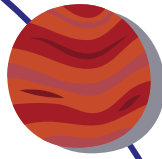
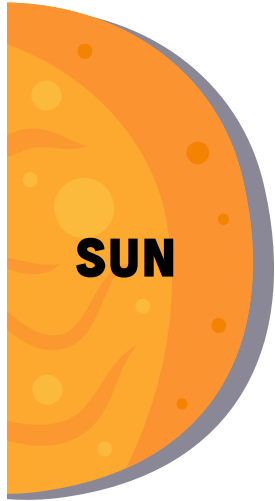
Planet's Distance
From the Sun

Planet's Length
of Year

One Interesting
Fact About This
Planet

EARTH





Planet's Order
From the Sun

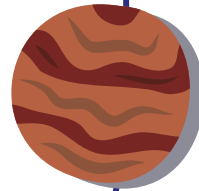
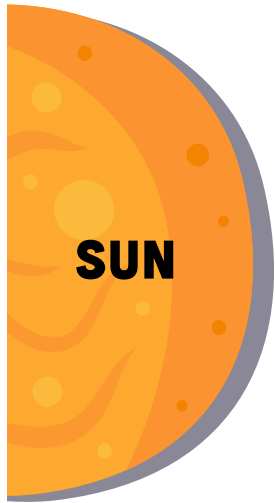
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One Interesting
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Planet

MARS





Planet's Order
From the Sun

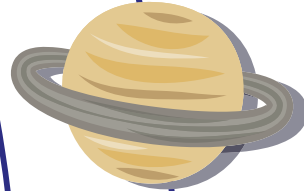
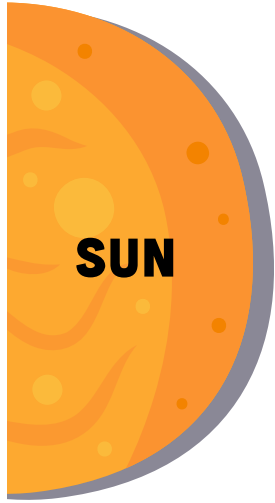
Planet's Distance
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Planet's Length
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One Interesting
Fact About This
Planet

JUPITER





Planet's Order
From the Sun

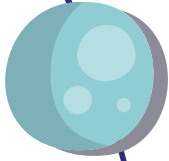
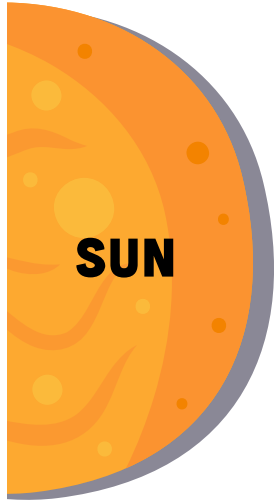
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From the Sun

Planet's Length
of Year

One Interesting
Fact About This
Planet

SATURN





Planet's Order
From the Sun

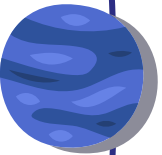
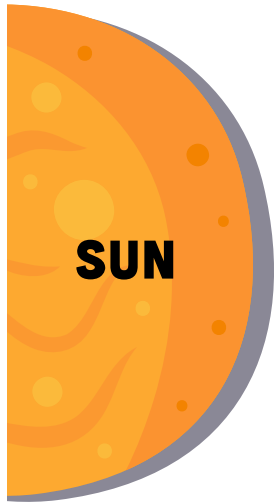
Planet's Distance
From the Sun

Planet's Length
of Year

One Interesting
Fact About This
Planet

URANUS





Planet's Order
From the Sun

Planet's Distance
From the Sun

Planet's Length
of Year

One Interesting
Fact About This
Planet

NEPTUNE