Koala Camp Day 3

Super Space

Grownup Guide

Activity	Do and learn	Time needed
Starry Night crate	**MAKE** a glow-in-the-dark moon and galaxy bottle. **PLAY** a comet toss game. **LEARN** about space.	60 minutes, plus drying time for the moon project
Flour Moon Craters video	**WATCH** the video. **EXPERIMENT** with flour moon craters. **LEARN** about meteorites.	30–40 minutes
Straw Rockets video	**WATCH** the video. **MAKE** straw rockets. **LEARN** about rockets.	40–60 minutes
Creative Constellations printable	**MAKE** your own star art. **LEARN** about constellations.	20–30 minutes
Blast-Off Board Game printable	**PLAY** a board game. **LEARN** the names of the planets.	20 minutes

Today, your camper will reach for the stars and have a blast exploring outer space! You can do these activities in any order you like, extend something if your kiddo is really into it, or cut things short if they're ready to move on. *(And don't forget to schedule time to visit the canteen for snacks — camp is hungry work!)* When you're ready to get started, it's easy as 1-2-3.

1. Just bookmark **kiwico.com/camp/koala/day3**,
2. print this guide,
3. and gather your gear!

Done? High five! We hope you and your camper have an awesome time making and learning together at Koala Camp, and we'd love to see what you create. Tag us with #kiwico to show off, or just to say hi!

See you at camp!
The Camp KiwiCo team

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Gather your gear for Super Space

Starry Night crate
scissors
tape
flour
cocoa powder
baking pan
rocks
markers or crayons
paper straws
plastic pipettes (optional)
6-sided die
game tokens (like coins or small toys)

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Koala Camp Day 3

Flour Moon Craters

You'll need

flour
cocoa powder
baking pan
rocks

Step 1

Watch the Flour Moon Craters video at **kiwico.com/camp/koala/day3**.

Step 2

Add a thick layer of flour to the bottom of the baking pan and spread it out.

Step 3

Sprinkle cocoa on top of the flour.

Step 4

Drop rocks onto the flour to make craters.

- **What do you notice about your craters?**
- **What happens when you drop a small rock on the baking pan? What about a big rock?**
- **What happens if you drop a rock from higher up?**

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What's going on?

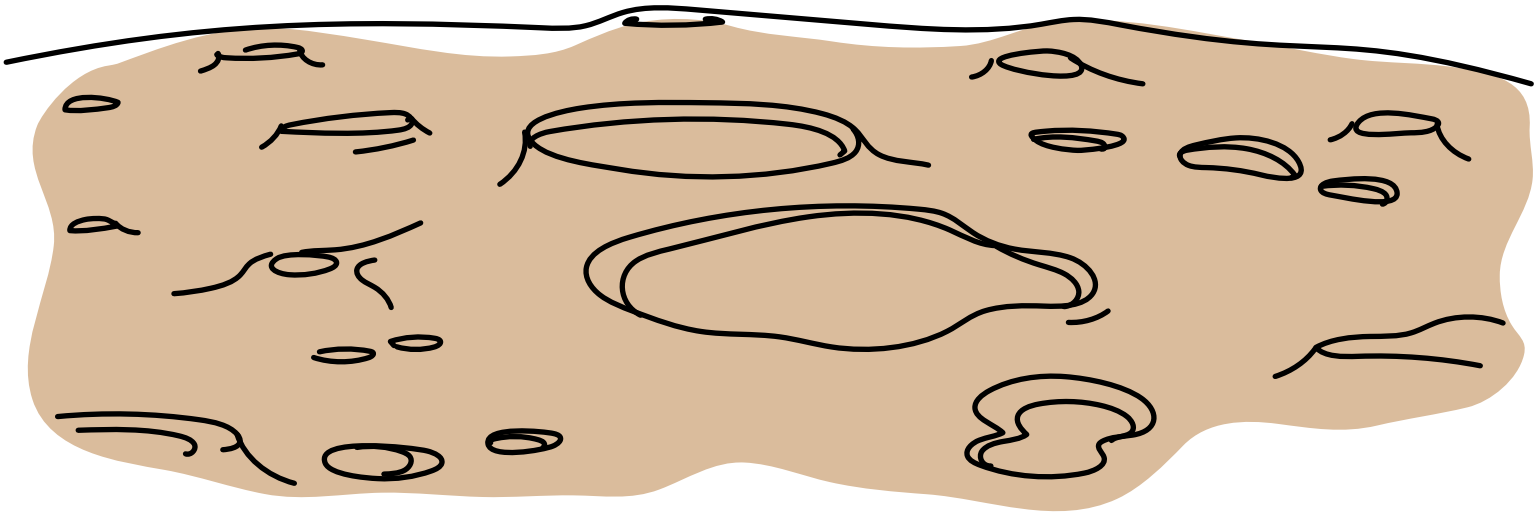
The Moon is covered in big holes called **craters**.

Craters are made when flying space rocks — called **meteorites** — crash into the Moon!

It's just like when you dropped rocks onto your baking pan. CRASH!

Smaller meteorites make smaller craters. Bigger meteorites make bigger craters.

Scientists can study craters to find out how fast and big the meteorite was.



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Straw Rockets

You'll need

printable rockets
markers or crayons
paper straws
tape
scissors
plastic pipettes (optional)

Optional

If you're using pipettes, ask a grownup to cut the bottoms off. Slide a pipette top into each rocket. Then put the pipettes over the top of a straw.

Step 1

Watch the Straw Rockets video at **kiwico.com/camp/koala/day3**.

Step 2

Design your rockets! Color in all the different shapes, then ask your grownup to help cut out the rockets. Find the matching rockets and pair them together.

Step 3

Build your rockets! Line up each pair together so the colorful sides are facing outward. Ask your grownup to help tape the sides and tops of the rockets. Make sure there aren't any holes.

Step 4

Prepare for liftoff! Slide each rocket over the top of a straw. Don't push it down too far.

Step 5

Launch your rockets! Blow into the bottom of a straw to send the rocket flying.

- **How far did your rockets go?**
- **Did the different rockets fly differently?**
- **Where would you go if you could ride on a rocket?**

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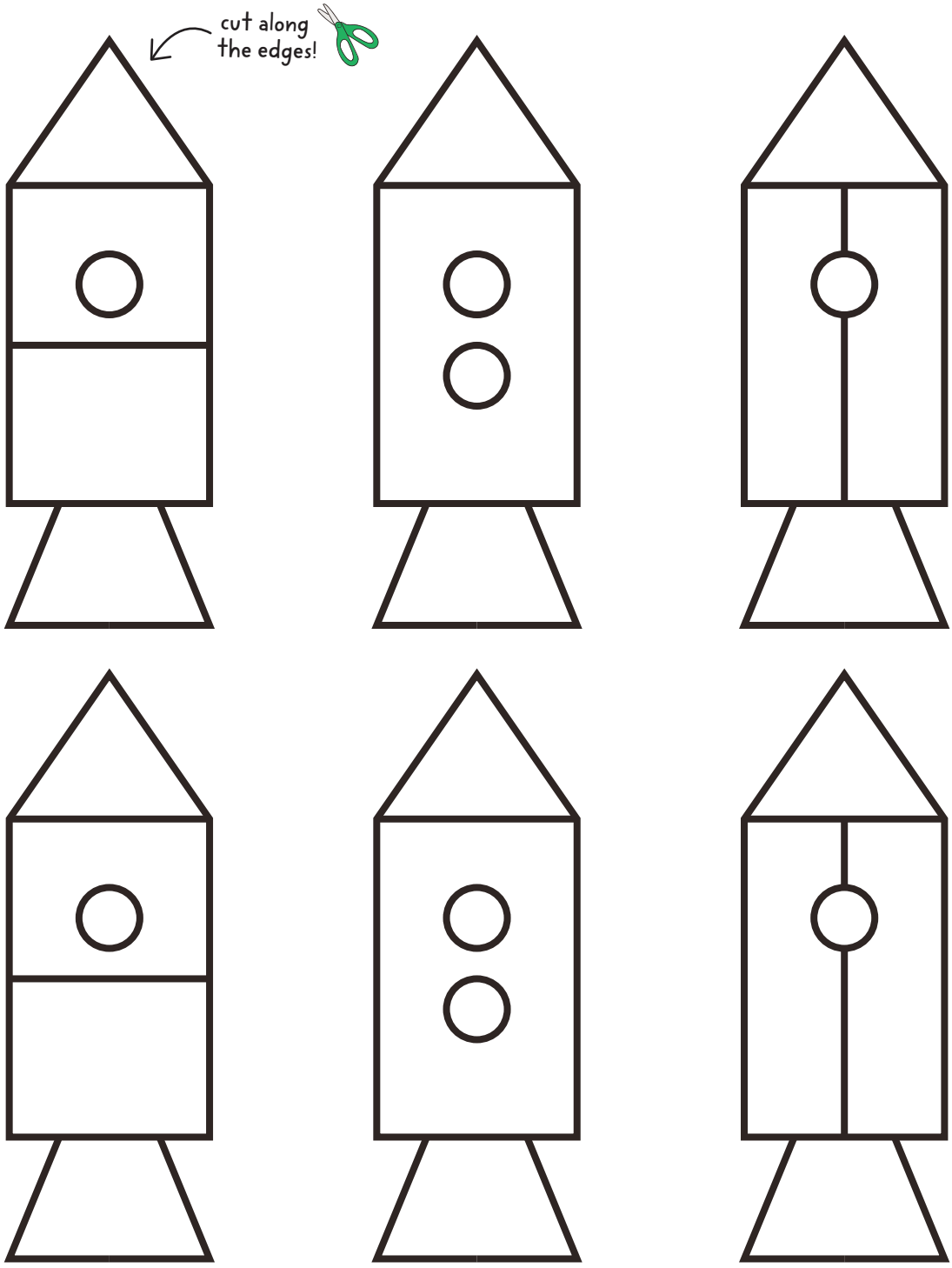

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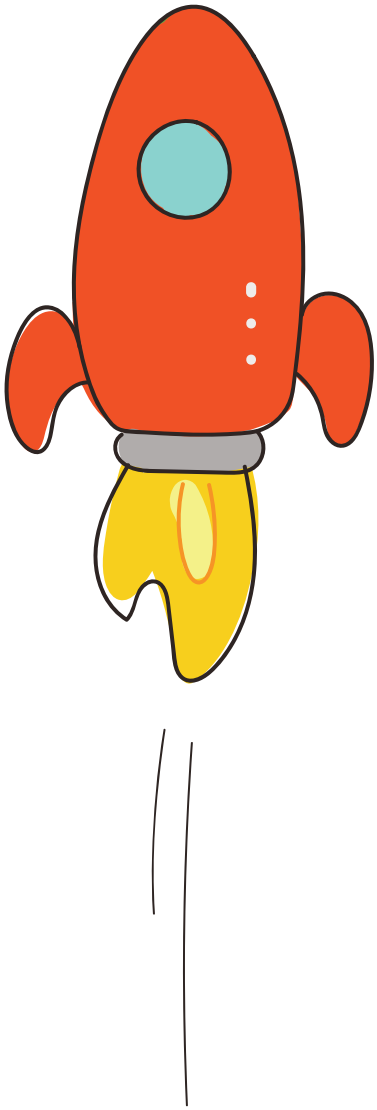
What's going on?

Your straw rockets need air from your lungs to lift off. But real rockets need tons and tons of **fuel**.

When a rocket is ready for takeoff, the fuel stored inside of it starts to burn and give off a lot of gas.

The gas rushes out of the bottom of the rocket, pushing the rocket off the ground and into the sky.

With enough of a push, the rocket can travel fast enough and far enough to reach outer space!



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Creative Constellations

You'll need

printable constellation cards

markers or crayons

Step 1

Read the constellation cards. Constellations are pictures that people imagine in the stars, like a giant dot-to-dot in the sky.

Step 2

Draw your own constellation picture on the cards. Make anything you like!

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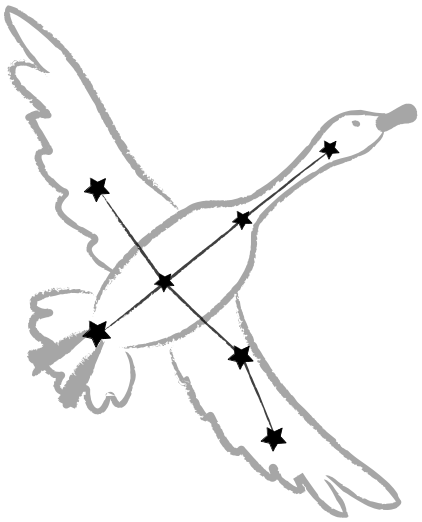

Cygnus

(The Swan)

The people who lived in ancient Greece thought these stars looked like a swan. Other people saw a hen or another kind of bird — what do you see?

draw your own picture!

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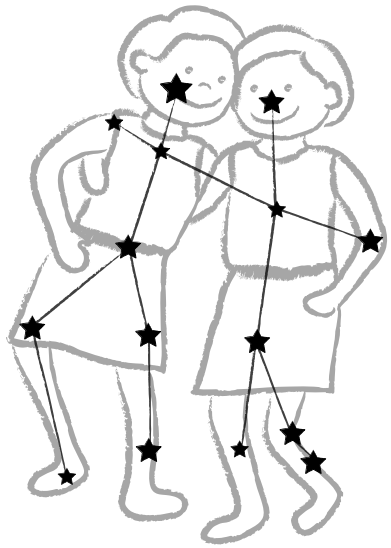
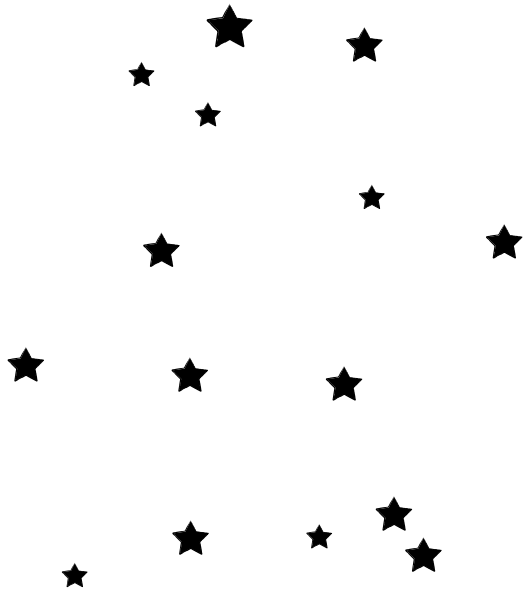


Gemini

(The Twins)

The two stars at the top of this constellation are called Castor and Pollux. They're named after twins from a famous Greek story. The ancient Greeks thought this constellation looked like the brothers standing arm in arm.



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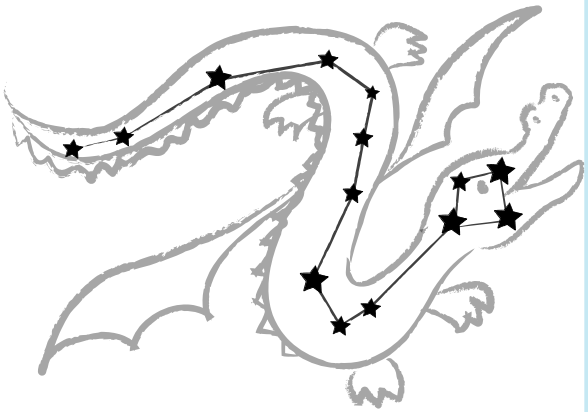
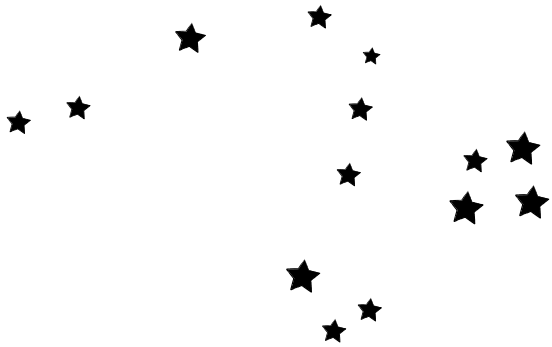


Draco

(The Dragon)

The four stars in the head of the Draco constellation are also called the Mother Camels. People say they look like four mama camels standing around a baby camel to keep it safe!



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Blast-Off Board Game

You'll need

- printable game board
- game tokens (like coins or small toys)
- 6-sided die
- tape

Step 1

Cut out the game board along the dashed lines. Ask your grownup for help!

Step 2

Tape the two halves of the board together.

Step 3

Place the game tokens at the start line.

Step 4

Take turns rolling the die. Move your token forward that many spots.

Step 5

If you land on a meteorite, you can blast forward to the spot it connects to.

Step 6

Keep going until one player reaches Neptune and wins the game!

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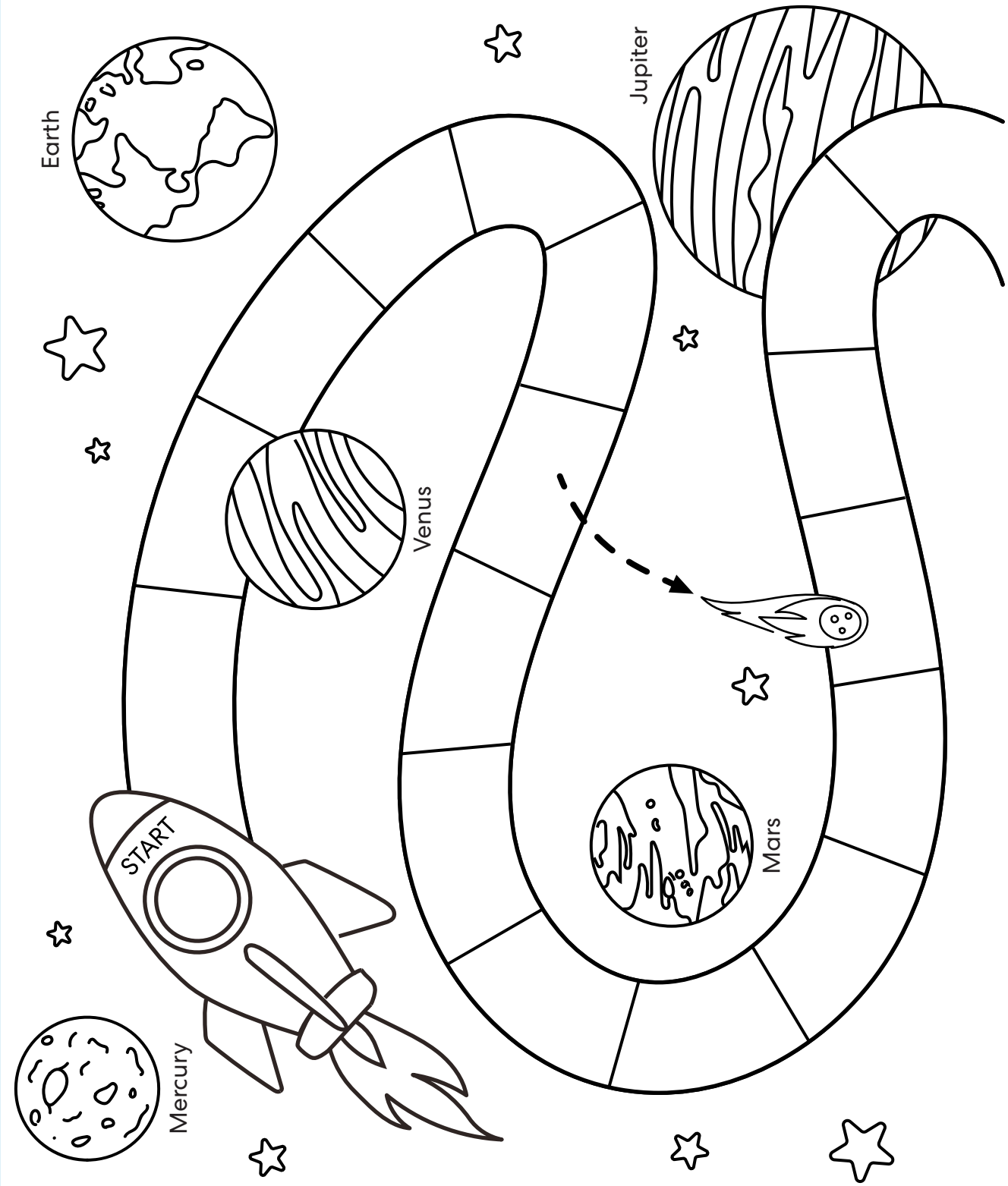

cut along the dashed lines!

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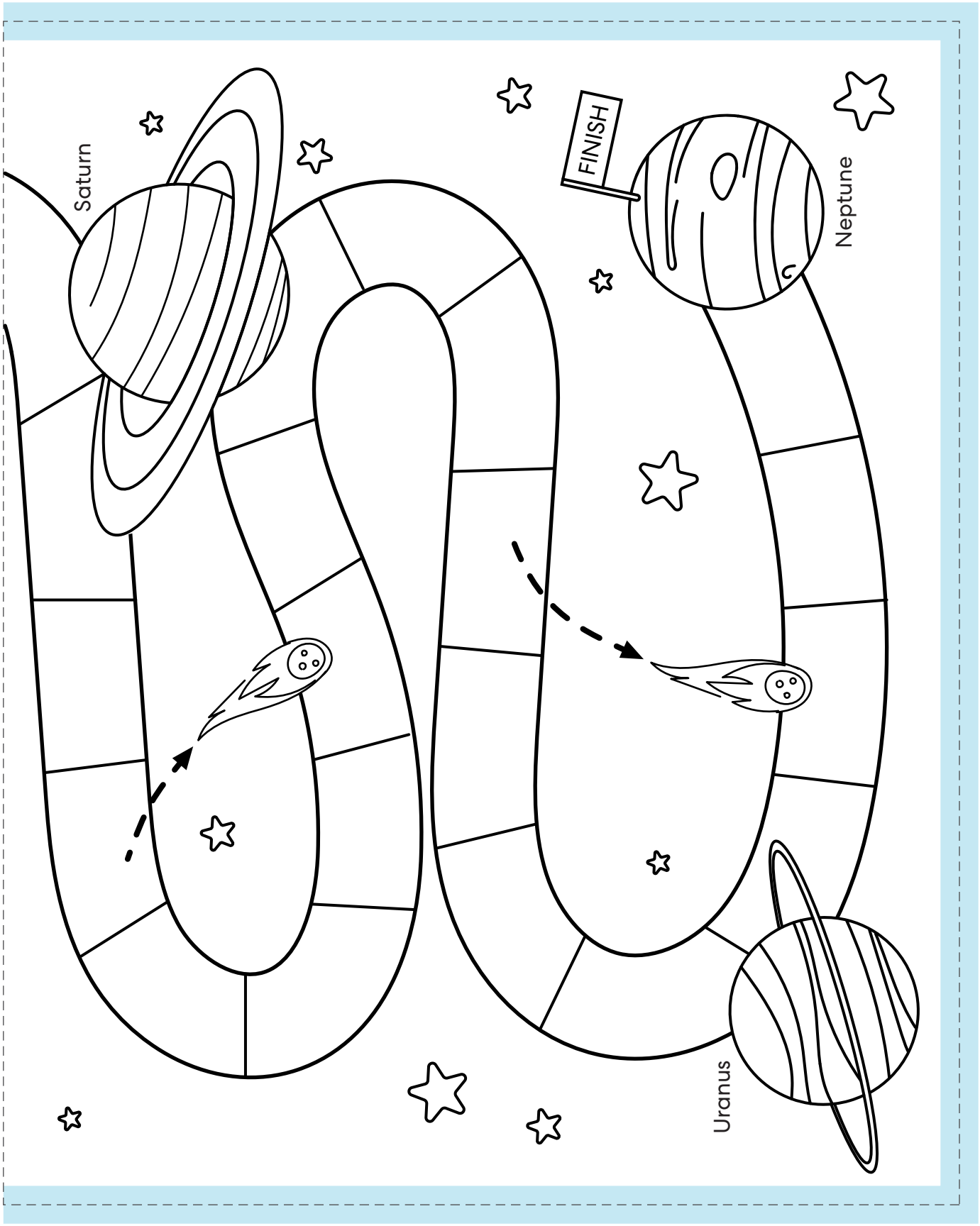

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Try this!

To remember the order of the planets, just think of one of these silly sentences!

- **My very excited mouse just slurped up noodles.**
- **Mom's very easy map just shows us north.**
- **My velociraptor eats mostly jam sandwiches until nighttime.**

The first letter of each word matches up with the first letter of each planet:

Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus, Neptune!

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