

BROWNIE SPACE SCIENCE ADVENTURER BADGE

VIRTUAL MEETING PLAN

Overview

This slide deck walks you through activities to complete all or most steps of a badge. It includes a variety of interactive activities that you can do as a troop – including video, group conversations, hands-on activities, and more. Review the full deck and notes section prior to your meeting for tips and suggestions. In addition, these first slides will outline the general meeting plan.

Depending on the length of your virtual meetings, you may choose to complete this badge over the course of 1-2 meetings. Connect with families ahead of time to let them know what materials they should have ready prior to logging in. Badges can be purchased by the troop for family in the online shop.

Materials Needed

Solar System Model handouts

Scissors

Glue

Metal paper fastener

Crater demonstration materials (cake pan or tin; flour; sprinkles; cocoa; spoon or sifter; towel, newspaper or paper towels; rocks)

Aluminum foil

Model Magic

Rocks

Pipe cleaners

Star beads (or pony beads)

Brownie Space Science Adventurer Badge Virtual Meeting

Activity	Slide Number	Time	Notes
Intro/Promise & Law	Slide 3 – 5	5 min	
Icebreaker	Slide 6	10 min	
Explore the Solar System	Slide 7 – 9	20 min	Have girls print out the Solar System Model handouts prior to the meeting
What's the Hubble Space Telescope?	Slides 10 – 11	15 min	Learn about how space scientists investigate space.
Let's Explore the Moon	Slides 12 – 14	25 min	You can either do the crater demonstration in real-time or watch a recording of it.
Let's Explore the Stars	Slides 15 – 18	15 min	Learn about the stars in the sky, and the constellations they form
Share What You Know	Slide 19	Varies	Girls will need to share what they know with their friends and families. This step can be done on their own after the meeting.
Closing	Slides 20 – 21	5 min	

BROWNIE SPACE SCIENCE ADVENTURER BADGE



GIRL SCOUTS RIVER VALLEYS





SAY THE GIRL SCOUT PROMISE

On my honor, I will try:
To serve God* and my country,
To help people at all times,
And to live by the Girl Scout Law.

**Members may substitute for the
word God in accordance with their own spiritual
beliefs.*



SAY THE GIRL SCOUT LAW

I will do my best to be
honest and fair,
friendly and helpful,
considerate and caring,
courageous and strong, and
responsible for what I say and do,

And to
respect myself and others,
respect authority,
use resources wisely,
make the world a better place, and
be a sister to every Girl Scout.

ICE BREAKER

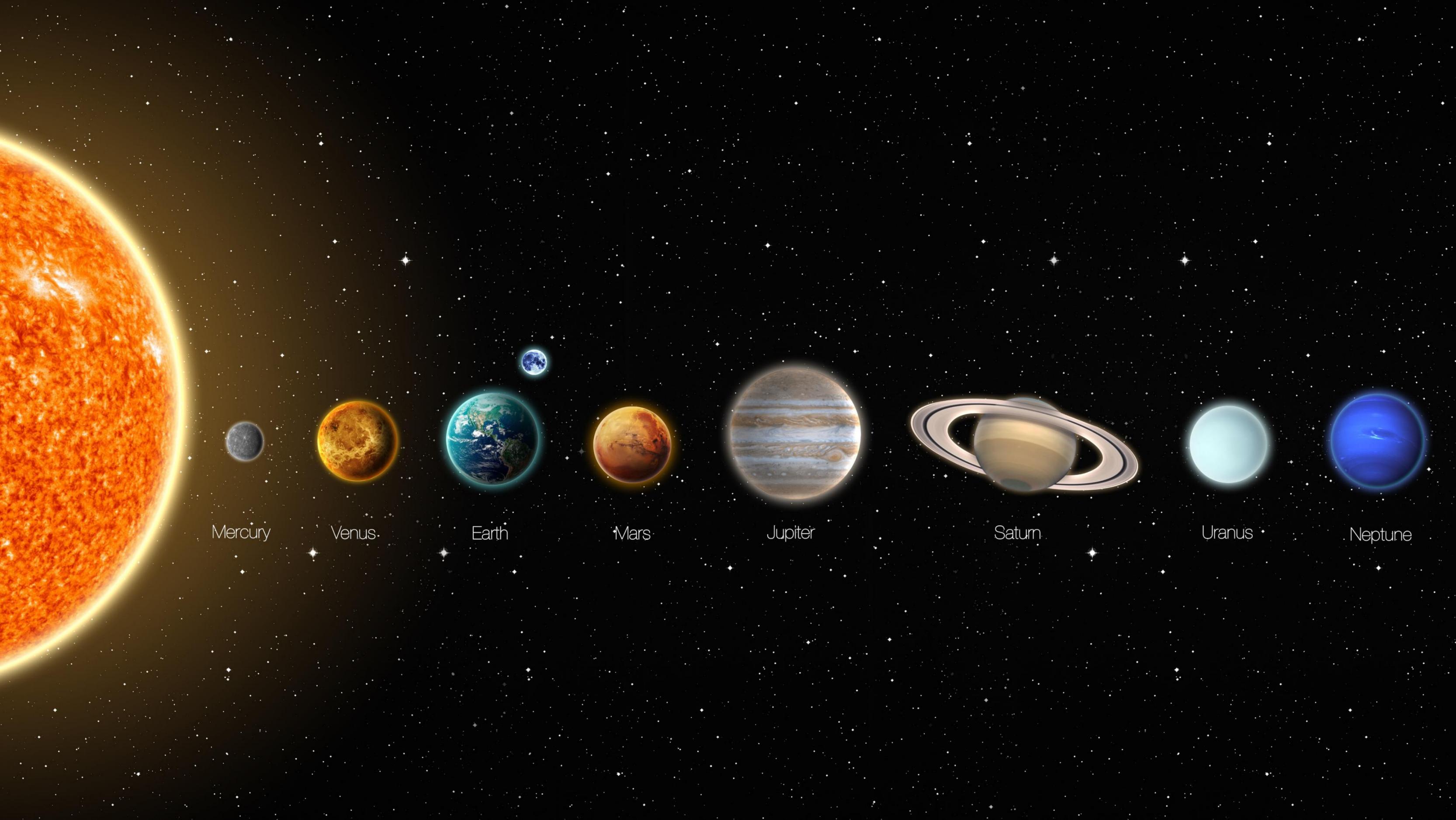
What would you bring with you on a trip to outer space?





**What planet do
we live on?**

**What are the
other planets
that make up the
solar system?**



Mercury

Venus

Earth

Mars

Jupiter

Saturn

Uranus

Neptune



LET'S MAKE OUR OWN SOLAR SYSTEM!

- Cut out the planets and the arms.
- Use scissors to poke a hole in the center of the sun and on ends of the paper arms
- Glue planets onto the arms
- Put the fastener through the middle of the sun and connect all the arms to the fastener
- Close the fastener

WHAT IS THE HUBBLE SPACE TELESCOPE?





**The Hubble Telescope works
nonstop. It explores the
universe 24 hours a day,
seven days a week.**

**WHAT DID HUBBLE
SEE ON YOUR
BIRTHDAY?**

HOW WOULD YOU DESCRIBE THE MOON?



HOLE-Y MOLY

Have you ever wondered why the Moon has all those bumps and holes?



PLEASED TO METEOR YOU

Craters on the Moon are caused by asteroids and meteorites colliding into it.



SEE YA CRATER

Why does the Moon have so many craters and the Earth has so few?

HOW ARE CRATERS FORMED?





CREATE YOUR OWN MOON

- Crumple some aluminum foil into a small ball.
- Cover the ball with Model Magic.
- Use the pebbles and rocks to “crash” into your moon

**LET'S TAKE A
TRIP TO THE
MOON!**





For as long as people have been looking at the sky, they've noticed shapes and patterns in the stars.

What are groups of stars that form shapes called?

CONSTELLATIONS!

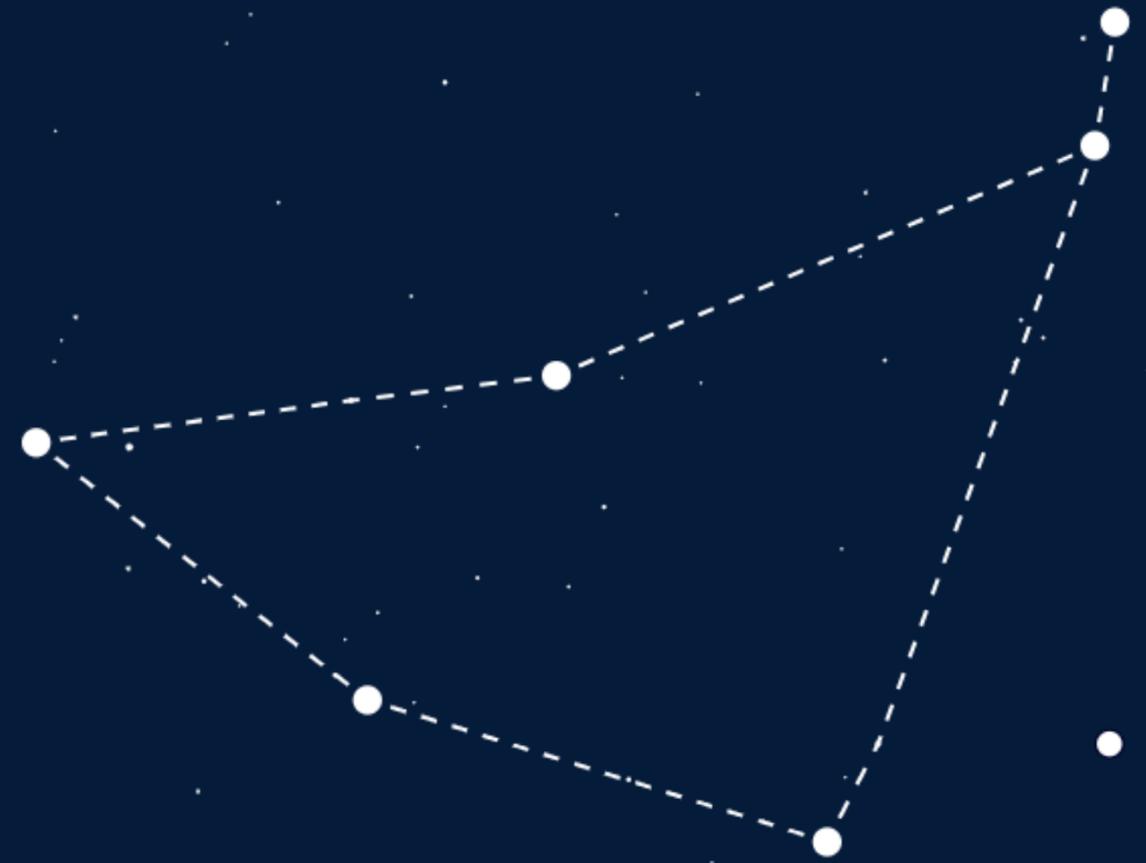
LET'S MAKE OUR OWN CONSTELLATIONS!

- Count how many stars there are on the constellation
- Put the corresponding number of beads onto your pipe cleaner.
- Twist and bend your pipe cleaner into the shape of the constellation.

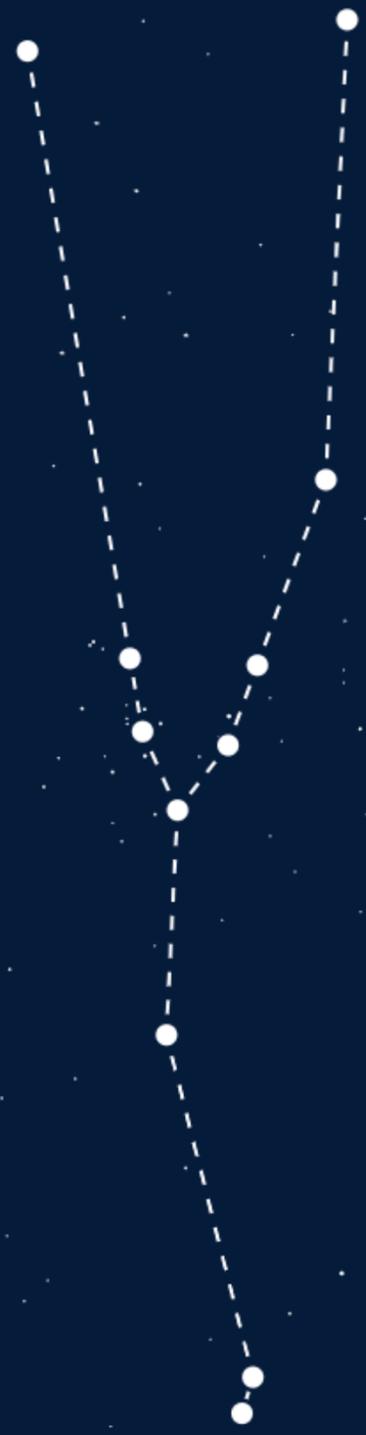




**scorpius (the
scorpion)**



capricornus (the goat)



taurus (the bull)



gemini (the twins)

You've learned so much about space...

NOW SHARE WHAT YOU KNOW!



Figure out a
new way to
recreate
constellations



See what the
moon looked
like on
everyone's
birthday



Attend a virtual
stargazing
event

Let's sing the Brownie Smile Song!

I've got something in my pocket, it
belongs across my face.

I keep it very close at hand, in a most
convenient place.

I'm sure you couldn't guess it if you
guessed a long, long while.

So I'll take it out and put it on, it's a
Great Big Brownie Smile!



**You've earned the
Brownie Space
Science Adventurer
badge!**

**See you next time,
friends!**