

A Universe of Stories- Summer Reading Program

Week 4, June 25th: To the Library and Beyond

Topic: Outer Space/The Galaxy

Game: Galaxy Invasion **V**

What you need:

- Paper plates
- Paint (black and blue)
- Glitter glue (various colors)
- Masking tape

What you do:

1. Before the program, have volunteers paint several paper plates with black paint and use glitter glue to make swirling galaxies. Repeat the process using new plates and blue paint.
2. Use a long piece of masking tape across the floor to create two sides to the program space.
3. Divide the children into two teams. Each team will go to one side of the tape line. Give one team the blue galaxy plates and the other team the black galaxy plates.
4. Each team should strategically sail their galaxy plates across the line (plates may be folded if necessary). If a sailed plate touches a member of the other team, that person leaves the galaxy to become a space rock floating in space outside the galaxy battle.
5. Continue play until there is only one galaxy left.

Craft Project: Telescope

What you need:

- Cardboard tubes (paper towel tubes work best)
- Stickers
- Markers
- Construction paper
- Scissors
- Glue sticks
- Tape
- Drawing materials
- Copies of the Telescope Checklist on page 176



What you do:

1. Cover the tubes with construction paper, using tape or glue.
2. Ask children to decorate their tubes using stickers, markers, and construction paper.
3. Next, use the tubes to practice finding items in the night sky. Distribute copies of the Telescope Checklist. Instruct children to look through their telescopes with one eye to locate the items and then draw what they see.

Books to Share: Nocturnal Animals, by Abbie Dunne; A Hundred Billion Trillion Stars, by Seth Fishman; Kitten's First Full Moon, by Kevin Henkes; My Journey to the Stars, by Scott Kelly; The Little Moon Princess, by YJ Lee; To Burp or Not to Burp: A Guide to Your Body in Space, by Dave Williams.

Science: Straw Rockets

What you need:

- Straws (two different sizes: one must fit inside the other)
- Tape
- Markers or crayons
- Scissors
- Straw Rocket Templates on page 223

What you do:

1. Print out enough rocket templates so that each child has one rocket.
2. Have each child color and decorate their rocket.
3. Cut one of the larger straws to the size of the rocket. Close one end of the straw with tape. Tape the straw to the back of the rocket, with the closed end toward the rocket's nose.
4. Place the smaller straw inside the larger straw, and blow through it to make the rocket take off.
5. Try launching the rocket at different angles to see which gives the most distance.

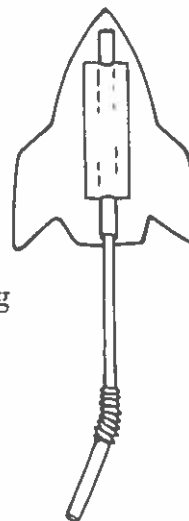
What happens:

In this activity, children are using the air in their lungs to act as fuel for their rockets. Rockets use the reaction principle to power them into space: gases inside the rocket build up with extreme pressure. With only one way out—through the

bottom of the rocket—enough force is provided to launch the rocket into space.

Additional Activities:

For an older audience, experiment with angles by orienting the rockets before launching them. By using bending drinking straws, launch rockets at zero-degree, 45-degree, and 90-degree angles. Record the distances the rockets travel and compare results.

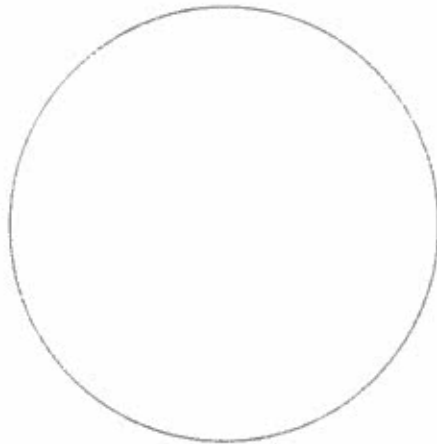


Telescope Checklist

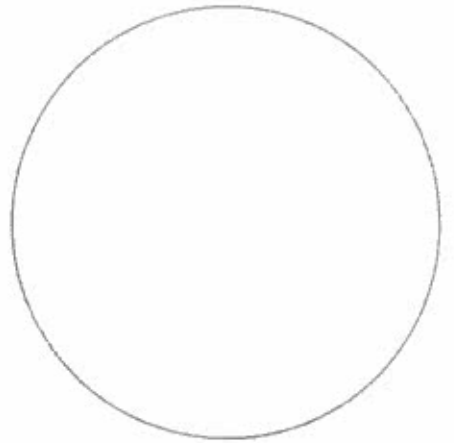
Can you see these items through your telescope?
Draw what you see through your telescope next to each item.



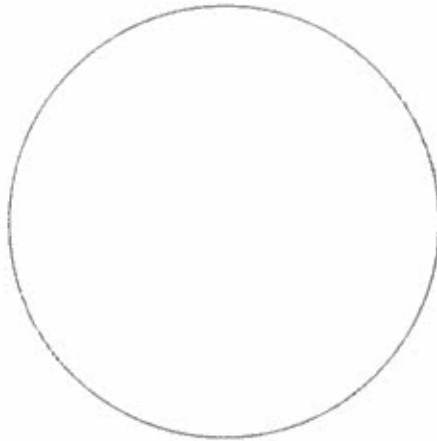
Moon



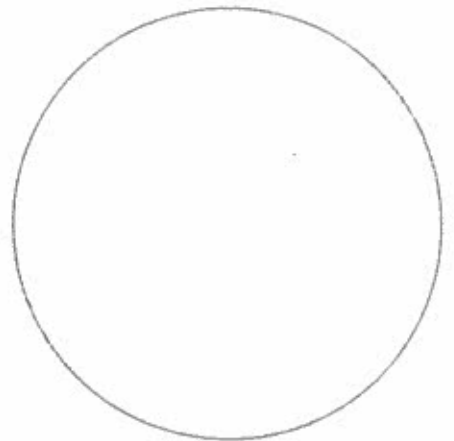
Star



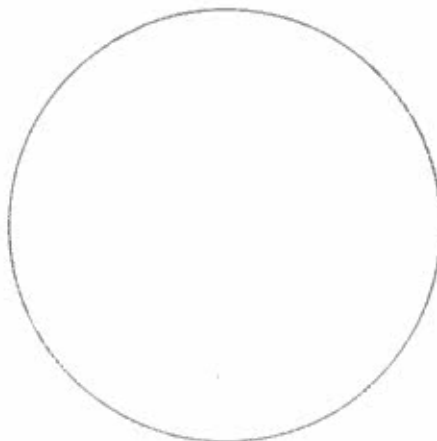
Cloud



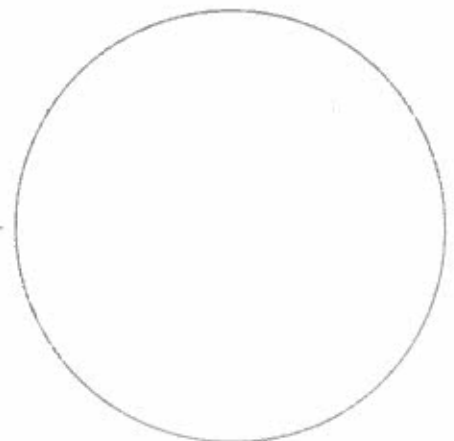
Animal



Tree



A friend

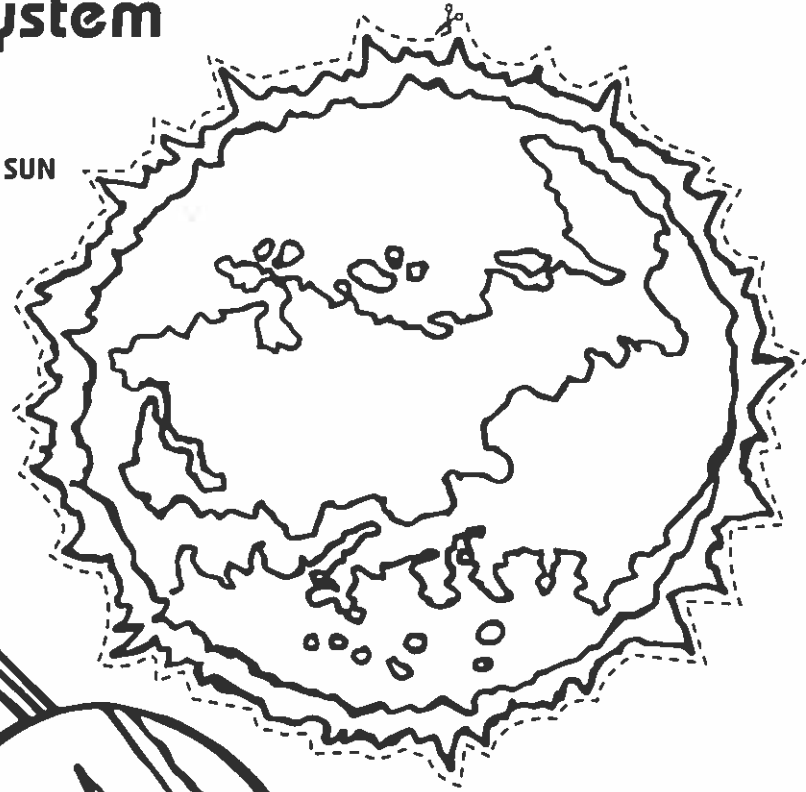


Color the Solar System

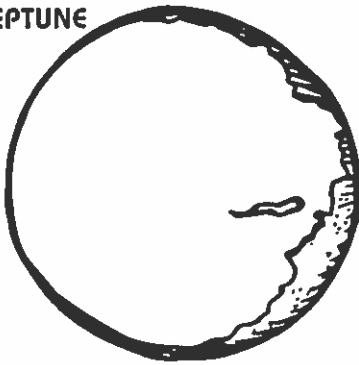
MERCURY



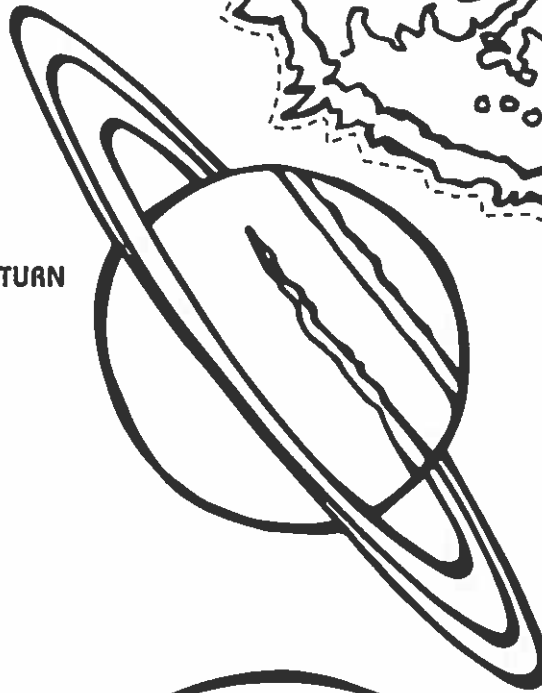
SUN



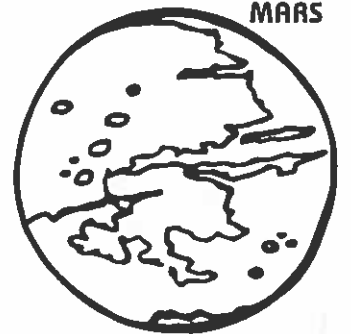
NEPTUNE



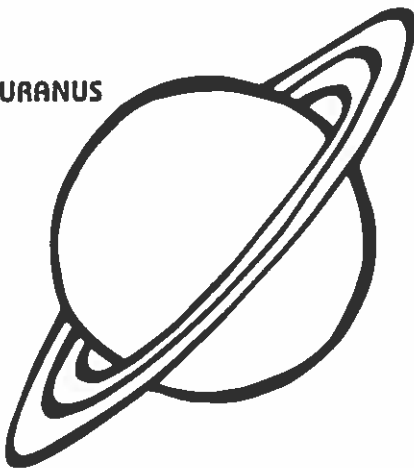
SATURN



MARS



URANUS



EARTH



VENUS



JUPITER

