

# MISSION MILKY WAY

5 DAYS OF THEMED PRESCHOOL  
SUMMER CAMP LESSONS

**BEST  
DAY  
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# MISSION MILKY WAY

Mission Milky Way is an interactive preschool lesson plan that encourages children to construct knowledge through meaningful play, thoughtfully planned activities, and active exploration of the environment. Children will love investigating space. While the lesson plan incorporates many different Pennsylvania Learning Standards, it focuses on the key learning area of “Scientific Thinking and Technology”. Specifically, children will engage in learning activities that meet the PA Standard Areas: Earth Space Sciences and Production and Performance in Visual Arts.

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## SCHEDULE

### DAY 1

ARRIVAL ACTIVITY - ROCKET SHAPES	20 MINUTES
CIRCLE TIME	15 MINUTES
HANDS-ON ACTIVITY - JETPACK BUILDER	20 MINUTES
BATHROOM BREAK	15 MINUTES
OUTSIDE PLAY - ASTRONAUT TRAINING OBSTACLE COURSE	30 MINUTES
SNACK	15 MINUTES
TABLE ACTIVITY - ROCKET BUILDING	15 MINUTES
CENTER PLAY	30 MINUTES
STORY TIME	10 MINUTES
CIRCLE TIME - PICK UP	15 MINUTES

### DAY 2

ARRIVAL ACTIVITY - CHALK GALAXY CRAFT	30 MINUTES
CIRCLE TIME	15 MINUTES
THEMED ACTIVITY - NAME ROCKET	20 MINUTES
BATHROOM BREAK	15 MINUTES
OUTSIDE PLAY - SPACE JUMPING	30 MINUTES
SNACK	15 MINUTES
TABLE ACTIVITY - FIZZY MOON PAINTING	15 MINUTES
CENTER PLAY	30 MINUTES
STORY TIME	10 MINUTES
CIRCLE TIME - PICK UP	15 MINUTES

### DAY 3

ARRIVAL ACTIVITY - SHOOTING STAR MOBILE	20 MINUTES
CIRCLE TIME	15 MINUTES
THEMED ACTIVITY - TELESCOPE	20 MINUTES
BATHROOM BREAK	15 MINUTES
OUTSIDE PLAY - STAR GAZING	30 MINUTES
SNACK	15 MINUTES
TABLE ACTIVITY - HOMEMADE CONSTELLATIONS	15 MINUTES
CENTER PLAY	30 MINUTES
STORY TIME	10 MINUTES
CIRCLE TIME - PICK UP	15 MINUTES



## DAY 4

ARRIVAL ACTIVITY - SPACE PUZZLES	20 MINUTES
CIRCLE TIME	15 MINUTES
THEMED ACTIVITY- ASTEROID TOSS	20 MINUTES
BATHROOM BREAK	15 MINUTES
OUTSIDE PLAY - SUN PAINTING	30 MINUTES
SNACK	15 MINUTES
TABLE ACTIVITY - MOON DUST WRITING	15 MINUTES
CENTER PLAY	30 MINUTES
STORY TIME	10 MINUTES
CIRCLE TIME - PICK UP	15 MINUTES

## DAY 5

ARRIVAL ACTIVITY - CREATE YOUR OWN PLANET	20 MINUTES
CIRCLE TIME	15 MINUTES
THEMED ACTIVITY - BUILD YOUR OWN PLANET	20 MINUTES
BATHROOM BREAK	15 MINUTES
OUTSIDE PLAY - CHALK SOLAR SYSTEM	30 MINUTES
SNACK	15 MINUTES
TABLE ACTIVITY - EARTH TISSUE PAPER	15 MINUTES
CENTER PLAY	30 MINUTES
STORY TIME	10 MINUTES
CIRCLE TIME - PICK UP	15 MINUTES



# TABLE OF CONTENTS

## DAY 1 – WELCOME TO SPACE CAMP ..... 7

ARRIVAL ACTIVITY - ROCKET SHAPES.....	7
CIRCLE TIME .....	8
THEMED ACTIVITY - JETPACK BUILDER.....	9
BATHROOM BREAK.....	10
OUTSIDE PLAY – ASTRONAUT TRAINING OBSTACLE COURSE.....	10
SNACK.....	10
TABLE ACTIVITY - ROCKET BUILDING .....	11
CENTER PLAY - DRAMATIC PLAY .....	12
STORY TIME .....	12
CIRCLE TIME/PICK-UP .....	13

## DAY 2 – TRAVELING THROUGH SPACE 101..... 15

ARRIVAL ACTIVITY - CHALK GALAXY CRAFT .....	15
CIRCLE TIME .....	15
THEMED ACTIVITY - NAME ROCKETS.....	16
BATHROOM BREAK.....	17
OUTSIDE PLAY - SPACE JUMPING .....	18
SNACK.....	18
TABLE ACTIVITY – FIZZY MOON PAINTING .....	19
CENTER PLAY – SCIENCE/EXPLORATORY CENTER...20	
STORY TIME .....	21
CIRCLE TIME/PICK-UP .....	21

## DAY 3 – SHOOTING STARS ..... 23

ARRIVAL ACTIVITY - SHOOTING STAR MOBILE .....	23
CIRCLE TIME .....	24
THEMED ACTIVITY - TELESCOPE .....	25
BATHROOM BREAK .....	26
OUTSIDE PLAY - STAR GAZING .....	26
SNACK.....	27
TABLE ACTIVITY - HOMEMADE CONSTELLATIONS.....27	
CENTER PLAY - LIBRARY CENTER.....	28

STORY TIME.....	29
CIRCLE TIME/PICK-UP .....	29

## DAY 4 – THE SUN AND THE MOON..... 31

ARRIVAL ACTIVITY - SPACE PUZZLES.....	31
CIRCLE TIME .....	31
THEMED ACTIVITY - ASTEROID TOSS .....	32
BATHROOM BREAK.....	33
OUTSIDE PLAY - SUN PAINTING .....	33
SNACK .....	34
TABLE ACTIVITY - MOON DUST WRITING.....	34
CENTER PLAY - PUZZLES .....	35
STORY TIME.....	35
CIRCLE TIME/PICK-UP .....	36

## DAY 5 – LANDING ON THE PLANETS ..... 38

ARRIVAL ACTIVITY - CREATE YOUR OWN PLANET ....	38
CIRCLE TIME .....	39
THEMED ACTIVITY - BUILD YOUR OWN PLANET .....	40
BATHROOM BREAK.....	41
OUTSIDE PLAY - CHALK SOLAR SYSTEM.....	42
SNACK .....	42
TABLE ACTIVITY - EARTH TISSUE PAPER.....	42
CENTER PLAY - ART .....	43
STORY TIME.....	44
CIRCLE TIME/PICK-UP .....	44

## UNIT REFLECTION NOTES ..... 46

## ADDITIONAL RESOURCES ..... 47

BOOKS.....	47
SUGGESTED GUEST SPEAKERS .....	47
WEBSITES .....	47
SONGS/VIDEOS .....	47
ACTIVITY PAGES .....	48

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# MATERIALS LIST

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- Glue
- Pattern blocks
- Pointer
- Flag
- Calendar
- Weather chart
- Pictures of rockets
- Thick ribbon
- Silver duct tape
- Recycled plastic bottles
- Star stickers
- Tissue paper (orange and yellow)
- Jump ropes
- Outdoor blocks/balance blocks
- Buckets
- Hula hoops
- Recycled metal cans
- Magnet tiles
- Cardboard box
- Poster paper
- Markers
- Images of the galaxy
- Colored chalk
- Construction paper (including black)
- Crayons
- Glue sticks
- Baking soda
- Vinegar
- Food coloring
- Small cups
- Droppers or spoons
- Trays
- Dirt
- Sand
- Plastic wrap
- Rubber washing gloves
- Rocks
- Aluminum foil
- Paint (black, blue, and purple)
- Paintbrushes
- Scissors
- Cardboard rolls
- Books about stars
- Books or images of galaxies
- Cardboard
- Tape
- Basket
- Sunscreen
- Space puzzles
- Images of stars/galaxies
- Flour
- Salt
- Paper plates
- Vegetable oil
- Measuring cup ( $\frac{1}{2}$  cup)
- Pencils
- Scrap paper
- Tissue paper (blue, green and white)
- Steppers (as available)
- Astronaut costumes (as available)
- Puppets (as available)

# SHOPPING LIST

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# DAY 1 – WELCOME TO SPACE CAMP



## ACTIVITY/CONCENTRATION

### ARRIVAL ACTIVITY - ROCKET SHAPES

Spread various toy shapes such as pattern blocks among the available space. Give children the task to create a rocket using the available shapes. Provide images of real rockets as a reference for inspiration. If shape toys/manipulatives are not available, cut out paper shapes from colored construction paper.



## DURATION/SCHEDULE

20 minutes – 9 to 9:20 a.m.



## MATERIALS

- Pattern blocks
- Colored paper shapes (if blocks are not available)
- Pictures of rockets



## LEARNER MODIFICATIONS



## GOALS/OBJECTIVES

- Use hands, fingers, and wrists to manipulate objects
- Coordinate eye and hand movements to perform a task
- Use tools that require use of fingers, hands, and wrists to accomplish a task



## STANDARDS

- 10.5 PK.A
- 10.5 PK.B
- 10.5 PK.C



## ACTIVITY/CONCENTRATION

### CIRCLE TIME

- Attendance
- Weather
- Calendar
- Flag
- Share interesting facts about rockets/space training:
  - Welcome children to space training! Tell them that they are learning about what the people who travel to space must do to prepare for their journey. Ask; "What do we call the people who travel to space? Astronauts!"
  - The term "astronaut" derives from the Greek words meaning "space sailor," and refers to all who have been launched as crew members aboard NASA spacecraft bound for orbit and beyond. The term "astronaut" has been maintained as the title for those selected to join the NASA corps of astronauts who make "space sailing" their career profession." - National Aeronautics and Space Administration
  - Astronauts must attend school to learn how to do many things such as science, medical procedures, public speaking, survival skills and how to speak Russian, alongside making sure their bodies are physically fit to endure the harsh conditions in Space.
  - Instruct children, "Today we will be working on space training skills to prepare us to launch into space this week! Before we get started, let's stretch our bodies and muscles to warm us up for the day! Stretch your arms up and around your body; touch your toes standing up and sitting down; side stretch to the left and right; stretching your hands to the left and right."



## DURATION/SCHEDULE

15 minutes – 9:20 to 9:35 a.m.



## MATERIALS

- Pointer
- Flag
- Calendar
- Weather chart



## LEARNER MODIFICATIONS



## GOALS/OBJECTIVES

- Relate information and/or experiences from the past
- Relate personal experiences during school activities



## STANDARDS

- AL.2 PK.E
- AL.4.PK.A





## ACTIVITY/CONCENTRATION

### THEMED ACTIVITY - JETPACK BUILDER

- **STEP 1:** With the help from the teachers, tape two empty recycled bottles together side-by-side.
- **STEP 2:** Children can use foam stickers, star stickers, or cut out star-themed shapes to decorate their jet packs to their liking.
- **STEP 3:** Instruct children to gather together a square of orange and yellow tissue paper and bunch the pieces together at one end. Have the children smash the bunched paper into each nozzle of their rocket to mimic a fire blast. The messier looking the better!
- **STEP 4:** Glue or tape thicker ribbon to the top and middle of each bottle, separately, to make arm straps look like the straps of a backpack.
- **STEP 5:** The children can wear their jetpacks to practice flying into space!



## DURATION/SCHEDULE

20 minutes – 9:35 to 9:55 a.m.



## MATERIALS

- Glue
- Thick ribbon
- Silver duct tape
- Recycled plastic bottles
- Orange and yellow tissue paper
- Star stickers (cut paper if no stickers are available)



## LEARNER MODIFICATIONS



## GOALS/OBJECTIVES

- Use materials and objects to represent new concepts
- Combine a variety of materials to create a work of art
- Use tools that require use of fingers, hands, and/or wrists to accomplish a task



## STANDARDS

- AL.3 PK.C
- 10.5 PK.C



## ACTIVITY/CONCENTRATION

### BATHROOM BREAK



## DURATION/SCHEDULE

15 minutes – 9:55 to 10:10 a.m.



## GOALS/OBJECTIVES

- Walk in line
- Tend to own toileting needs
- Practice proper hand washing procedures



## STANDARDS

- 10.2 PK.A



## ACTIVITY/CONCENTRATION

### OUTSIDE PLAY - ASTRONAUT TRAINING OBSTACLE COURSE

Children and adults work together to create an astronaut obstacle course to better prepare us to enter our space journey. Let the children use their imagination and creativity to create obstacles of different challenges to help with balance, jumping skills, and lifting skills.



## DURATION/SCHEDULE

30 minutes – 10:10 to 10:40 a.m.



## MATERIALS

- Jump ropes
- Outdoor blocks/balance blocks
- Buckets
- Steppers
- Hula hoops



## LEARNER MODIFICATIONS



## GOALS/OBJECTIVES

- Use outdoor gross motor equipment
- Engage in large motor activities that require strength and balance



## STANDARDS

- 10.4 PK.A
- 10.4 PK.B



## ACTIVITY/CONCENTRATION

### SNACK



## DURATION/SCHEDULE

15 minutes – 10:40 to 10:55 a.m.



## GOALS/OBJECTIVES

- Identify foods that keep our body healthy
- Interact with peers and adults in a socially acceptable manner



## STANDARDS

- 10.1 PK.C
- 16.2 PK.A



## ACTIVITY/CONCENTRATION

### TABLE ACTIVITY - ROCKET BUILDING

- **STEP 1:** Provide various materials placed in front of them to use to create rockets.
- **STEP 2:** Tell the children that they need to construct their very own rockets to travel space with. They will be using the available recycled metal cans and magnet tiles to create the best rockets they can think of.
- **STEP 3:** Start with the metal cans and build a base.
- **STEP 4:** Use magnet tiles to create the top, wings, etc. for their rockets.
- **STEP 5:** Compare the children's rockets as a group. which rockets can withstand space more than others?



## DURATION/SCHEDULE

15 minutes – 10:55 to 11:10 a.m.



## MATERIALS

- Recycled metal cans
- Magnet tiles



## LEARNER MODIFICATIONS



## GOALS/OBJECTIVES

- Use materials and objects to represent new concepts
- Relate knowledge learned from one experience to a similar experience in a new setting



## STANDARDS

- AL.3 PK.C
- AL.4 PK.A



## ACTIVITY/CONCENTRATION

### CENTER PLAY - DRAMATIC PLAY

Children can use their rockets to become space rangers. The children can train and travel to space to endure various missions such as finding new planets, saving the universe from evil, or traveling to see the stars. Hang stars along the walls to mimic the sky. Offer boxes if available to mimic a rocket to take to space.



## DURATION/SCHEDULE

30 minutes – 11:10 to 11:40 a.m.



## MATERIALS

- Cut stars to hang along the walls
- Astronaut costumes (as available)
- Cardboard box



## LEARNER MODIFICATIONS



## GOALS/OBJECTIVES

- Engage in complex play sequences with two or more children
- Work toward completing a task, even if challenging, and despite interruptions
- Relate knowledge learned from one experience to a similar experience in a new setting



## STANDARDS

- AL.1 PK.C
- AL.2 PK.A
- AL.4 PK.A



## ACTIVITY/CONCENTRATION

### STORY TIME

Read a book about space.



## DURATION/SCHEDULE

10 minutes – 11:40 to 11:50 a.m.



## MATERIALS

- Picture book



## LEARNER MODIFICATIONS



## GOALS/OBJECTIVES

- Identify basic features of print
- Answer questions about a text
- Respond to questions and prompts about characters, settings, and events during a read-aloud



## STANDARDS

- 1.1 PK.B
- 1.2 PK.B
- 1.3 PK.C



## ACTIVITY/CONCENTRATION

### CIRCLE TIME/PICK-UP

Discuss today's activities. Sing a song related to space.



## DURATION/SCHEDULE

10 minutes – 11:50 a.m. to 12 p.m.



## MATERIALS

- Multi-media player



## LEARNER MODIFICATIONS



## GOALS/OBJECTIVES

- Respond to different types of music and dance through participation and discussion
- Interact with peers and adults in a socially acceptable manner
- Recognize there are socially acceptable ways to behave in different places



## STANDARDS

- 9.1.M PK.B
- 16.2 PK.A
- 16.3 PK.B



## REFLECTION NOTES



# DAY 2 – TRAVELING THROUGH SPACE 101



## ACTIVITY/CONCENTRATION

### ARRIVAL ACTIVITY - CHALK GALAXY CRAFT

Pass out black paper. The children can use a variety of colored chalk to create a swirl in the center of their papers that gradually grows toward the edges of the paper. Children's fingers can drag the chalk around to blend the colors together. The children can use their creativity to make their own beautiful galaxies.



## DURATION/SCHEDULE

20 minutes – 9 to 9:20 a.m.



## MATERIALS

- Black paper

- Colored chalk



## LEARNER MODIFICATIONS



## GOALS/OBJECTIVES

- Use hands, fingers, and wrists to manipulate objects

- Coordinate eye and hand movements to perform a task



## STANDARDS

- 10.5 PK.A

- 10.5 PK.B



## ACTIVITY/CONCENTRATION

### CIRCLE TIME

- Attendance
- Weather

- Calendar
- Flag
- Discuss the different things that we would find in space. Say; “We live on a planet called Earth that is part of our solar system. But where is our solar system? It’s a small part of the Milky Way Galaxy.
- A galaxy is a huge collection of gas, dust, billions of stars, and their solar systems. A galaxy is held together by gravity. Our galaxy, the Milky Way, also has a super-massive black hole in the middle of it.” - *NASA Space Place*.
- Ask the children to help make a list of things we know about the Sun, Earth, and Moon.



## DURATION/SCHEDULE

15 minutes – 9:20 to 9:35 a.m.



## MATERIALS

- Pointer
- Flag
- Calendar
- Weather chart
- Poster paper
- Markers
- Images of the galaxy



## LEARNER MODIFICATIONS



## GOALS/OBJECTIVES

- Relate information and/or experiences from the past
- Relate personal experiences during school activities
- Identify objects that can be found in the day or night sky
- Participate in simple investigations of the objects found in the day or night sky to answer a question or to test a prediction



## STANDARDS

- AL.2 PK.E
- AL.4 PK.A
- 3.3 PK.B.1
- 3.3 PK.B.3



## ACTIVITY/CONCENTRATION

### THEMED ACTIVITY - NAME ROCKETS

- **STEP 1:** Provide the children with a variety of colored squares cut from construction paper. Each child is provided with a piece of black construction paper in front of them, equipped with a stick of glue and markers. Either independently or with the teacher’s assistance, each child picks out an equal number of squares as the letters in their name. Children can use the Activity page: Rocket Template (provided in the Additional Resources).
- **STEP 2:** The children are instructed to glue their squares to the center of their papers in a straight vertical line.
- **STEP 3:** Independently or with the teacher’s assistance, children can write each individual letter in their names on the given squares in marker.
- **STEP 4:** Each child is given a triangle to glue to the top of their rocket or line.
- **STEP 5:** The children can decorate the surrounding area of their rockets with either star stickers, or crayon drawn stars. To create the fire behind the rockets, children can use crayons to represent a fire blast.



## DURATION/SCHEDULE

20 minutes – 9:35 to 9:55 a.m.



## MATERIALS

- Markers
- Crayons
- Glue sticks
- Star stickers
- Black construction paper



## LEARNER MODIFICATIONS

- Triangles cut in construction paper
- Assorted colored squares in construction paper
- Activity page: Rocket Template (provided in the Additional Resources)



## GOALS/OBJECTIVES

- Recognize and name some upper- and lower-case letters of the alphabet
- Participate in teacher-guided visual arts activities

- Use hands, fingers, and wrists to manipulate objects



## STANDARDS

- 1.1 PK.B
- 9.1.V PK.B

- 10.5 PK.A



## ACTIVITY/CONCENTRATION

BATHROOM BREAK



## DURATION/SCHEDULE

15 minutes – 9:55 to 10:10 a.m.



## GOALS/OBJECTIVES

- Walk in line
- Tend to own toileting needs

- Practice proper hand washing procedures



## STANDARDS

- 10.2 PK.A



## ACTIVITY/CONCENTRATION

### OUTSIDE PLAY - SPACE JUMPING

The children can either work together to create their own space travel or follow along with the teachers' outline. Create an obstacle course in chalk for the children to jump and travel through space. Station a starting line and finish line in chalk. The children can take turns traveling through the chalk course, pretending they are moving through the galaxy.



## DURATION/SCHEDULE

30 minutes – 10:10 to 10:40 a.m.



## MATERIALS

- Chalk
- Sidewalk



## LEARNER MODIFICATIONS



## GOALS/OBJECTIVES

- Relate knowledge learned from one experience to a similar experience in a new setting
- Use outdoor gross motor equipment
- Engage in large motor activities that require strength and balance



## STANDARDS

- AL.4 PK.A
- 10.4 PK.B
- 10.4 PK.B



## ACTIVITY/CONCENTRATION

### SNACK



## DURATION/SCHEDULE

15 minutes – 10:40 to 10:55 a.m.



## GOALS/OBJECTIVES

- Identify foods that keep our body healthy
- Interact with peers and adults in a socially acceptable manner



## STANDARDS

- 10.1 PK.C
- 16.2 PK.A



## ACTIVITY/CONCENTRATION

### TABLE ACTIVITY - FIZZY MOON PAINTING

- **STEP 1:** Provide a tray and a moon shape copied on cardstock. Refer to the Activity page: Moon Template (provided in the Additional Resources).
- **STEP 2:** The teacher will assist in sprinkling and covering each moon in baking soda. Remind the children not to touch or eat the baking soda. Tell the children that you are sprinkling moon dust on their moons. Ask the children what the dust looks like. Observe the dust as a group.
- **STEP 3:** Let each child have a small cup of yellow dyed vinegar and a dropper. Again, tell children to be very careful and not spill or drink the special “moon mix”.
- **STEP 4:** Have the children squeeze a dropper until the dropper is full then squeeze again to release the yellow onto their moons. Have the children watch their moons as they begin to fizz and bubble. Substitute with a cup and spoon.
- **STEP 5:** The children continue to drop the yellow vinegar until their moon is completely covered with fizzy yellow bubbles.
- **STEP 6:** Set their crafts aside to dry. Once dry, the remaining baking soda should fall off and you will be left with a crater-filled moon image!



### DURATION/SCHEDULE

15 minutes – 10:55 to 11:10 a.m.



### MATERIALS

- Cardstock
  - Baking soda
  - Vinegar
  - Yellow food coloring
  - Small cups
  - Droppers or spoons
  - Trays
- Activity page: Moon Template (provided in the Additional Resources)



### LEARNER MODIFICATIONS





## GOALS/OBJECTIVES

- Engage in a variety of creative activities
- Identify objects that can be found in the day or night sky
- Participate in teacher-guided visual arts activities
- Use tools that require use of fingers, hands, and/or wrists to accomplish a task



## STANDARDS

- AL.3 PK.B
- 3.3 PK.B
- 9.1.V PK.B
- 10.5 PK.C



## ACTIVITY/CONCENTRATION

### CENTER PLAY – SCIENCE/EXPLORATORY CENTER

Provide a variety of “moon rocks” to explore. Set up a cardboard box with 4 arm-sized holes draped with plastic wrap over the top opening. Inside should be a variety of earth rocks and “moon rocks” (aluminum foil balls), sand, and dirt. Require children to wear protective gloves or rubber dish gloves to touch and examine the moon rocks. Children can pretend that they are making new scientific discoveries.



## DURATION/SCHEDULE

30 minutes – 11:10 to 11:40 a.m.



## MATERIALS

- Dirt
- Sand
- Cardboard box
- Plastic wrap
- Rubber washing gloves
- Rocks
- Aluminum foil balls



## LEARNER MODIFICATIONS





## GOALS/OBJECTIVES

- Engage in complex play sequences with two or more children
- Work toward completing a task, even if challenging, and despite interruptions
- Relate knowledge learned from one experience to a similar experience in a new setting



## STANDARDS

- AL.1 PK.C
- AL.2 PK.A
- AL.4 PK.A



## ACTIVITY/CONCENTRATION

### STORY TIME

Read a book about Space.



## DURATION/SCHEDULE

10 minutes – 11:40 to 11:50 a.m.



## MATERIALS

- Picture book



## LEARNER MODIFICATIONS



## GOALS/OBJECTIVES

- Identify basic features of print
- Answer questions about a text
- Respond to questions and prompts about characters, settings, and events during a read-aloud



## STANDARDS

- 1.1 PK.B
- 1.2 PK.B
- 1.3 PK.C



## ACTIVITY/CONCENTRATION

### CIRCLE TIME/PICK-UP

Discuss today's activities. Sing a song related to Space.



## DURATION/SCHEDULE

10 minutes – 11:50 a.m. to 12 p.m.



## MATERIALS

- Multi-media player



## LEARNER MODIFICATIONS



### GOALS/OBJECTIVES

- Respond to different types of music and dance through participation and discussion
- Recognize there are socially acceptable ways to behave in different places
- Interact with peers and adults in a socially acceptable manner



### STANDARDS

- 9.1.M PK.B
- 16.2 PK.A
- 16.3 PK.B



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### REFLECTION NOTES

# DAY 3 – SHOOTING STARS



## ACTIVITY/CONCENTRATION

### ARRIVAL ACTIVITY - SHOOTING STAR MOBILE

Children are each given a paper plate. Children can paint their plates a variety of night sky colors. Suggested colors are black, purple, or blue. Encourage the children to swirl and blend colors as well as filling the whole plate with paint. While the paint is wet, children lay paper stars and stripes into the wet paint to create an array of shooting stars. Once the paper plate is dry, either the child or the teacher assists in cutting the plates in a swirl to create a shooting star mobile.



## DURATION/SCHEDULE

20 minutes – 9 to 9:20 a.m.



## MATERIALS

- Paper plates
- Paint (black, blue, and purple)
- Paintbrushes
- Construction paper cut stars
- Colored strips to decorate
- Scissors



## LEARNER MODIFICATIONS



## GOALS/OBJECTIVES

- Use hands, fingers, and wrists to manipulate objects
- Coordinate eye and hand movements to perform a task
- Identify objects that can be found in the day or night sky



## STANDARDS

- 10.5 PK.A
- 10.5 PK.B
- 3.3 PK.B.1



## ACTIVITY/CONCENTRATION

### CIRCLE TIME

- Attendance
- Weather
- Calendar
- Flag
- Share interesting facts about stars:
  - Ask the children if they know what stars are made of. You may get answers such as, “Things in the sky,” or “Balls of light at night”. Suggest they refer to the sun for their answers.
  - Explain “Stars are huge balls of superhot gas. Gasses called hydrogen and helium make up stars. The hotter they burn, the brighter the stars are. Our Sun is a star because it is continually burning”.
  - Stars are billions of years old. Our Sun is about 4.5 billion years old!
  - When stars burn up completely, they can explode and become a black hole or a neutron star. - *Ducksters*. “*Astronomy for Kids: Stars.*” *Ducksters, Technological Solutions, Inc. (TSI)*, [www.ducksters.com/science/star.php](http://www.ducksters.com/science/star.php). Accessed 11 May 2023.
  - Continue discussion “If you were to try to see a star up close, you would need to use a very strong telescope. The Webb telescope at NASA is the strongest telescope and finds the clearest pictures of the stars”.



NASA GALAXY



NASA Webb Telescope Awarded  
Popular Science 'Best of What's New' Award



Video of images found  
from the Webb telescope



## DURATION/SCHEDULE

15 minutes – 9:20 to 9:35 a.m.



## MATERIALS

- Pointer
- Flag
- Calendar
- Weather chart
- Multi-media player



## LEARNER MODIFICATIONS



## GOALS/OBJECTIVES

- Relate information and/or experiences from the past
- Relate personal experiences during school activities
- Identify objects that can be found in the day or night sky



## STANDARDS

- AL.2 PK.E
- AL.4 PK.A
- 3.3 PK.B.1



## ACTIVITY/CONCENTRATION

### THEMED ACTIVITY - TELESCOPE

- **STEP 1:** Provide each child with 1 cardboard roll of their own. Give the children blue and purple paint and a paintbrush.
- **STEP 2:** Instruct the children to make their own stargazing telescopes. To start, have the children paint the entire outside of their cardboard roll with blue and purple paint.
- **STEP 3:** Prepare small and large stars by copying the activity pages: Star Template (provided in the Additional Resources) onto paper in various colors. The children can use the moisture of the paint to attach paper stars to their telescopes.
- **STEP 4:** Let their telescopes dry before utilizing them. Once dry, children can use their creations to pretend to look for the various stars and galaxies in the sky.





## DURATION/SCHEDULE

20 minutes – 9:35 to 9:55 a.m.



## MATERIALS

- Cardboard rolls
- Paint (blue and purple)
- Paintbrushes

- Activity pages: Star Template (provided in the Additional Resources) cut from construction paper in various colors



## LEARNER MODIFICATIONS



## GOALS/OBJECTIVES

- Use materials and objects to represent new concepts
- Relate knowledge learned from one experience to a similar experience in a new setting
- Participate in teacher-guided visual arts activities
- Use hands, fingers, and/or wrists to manipulate objects



## STANDARDS

- AL.3 PK.C
- AL.4 PK.A
- 9.1.V PK.B
- 10.5 PK. A



## ACTIVITY/CONCENTRATION

### BATHROOM BREAK



## DURATION/SCHEDULE

15 minutes – 9:55 to 10:10 a.m.



## GOALS/OBJECTIVES

- Walk in line
- Tend to own toileting needs
- Practice proper hand washing procedures



## STANDARDS

- 10.2 PK.A



## ACTIVITY/CONCENTRATION

### OUTSIDE PLAY - STAR GAZING

The children can use their telescopes to pretend to search for stars. Tell the children that explorers used to use the stars to travel and find new locations.



## DURATION/SCHEDULE

30 minutes – 10:10 to 10:40 a.m.



## MATERIALS

- Star telescopes from previous activity





## LEARNER MODIFICATIONS



### GOALS/OBJECTIVES

- Use materials and objects to represent new concepts
- Relate knowledge learned from one experience to a similar experience in a new setting
- Use nonconforming objects to create representation of real-life objects or activities



### STANDARDS

- AL.3 PK.C
- AL.4 PK.A
- 9.1.D PK.B



### ACTIVITY/CONCENTRATION

#### SNACK



### DURATION/SCHEDULE

15 minutes – 10:40 to 10:55 a.m.



### GOALS/OBJECTIVES

- Identify foods that keep our body healthy
- Interact with teachers and peers



### STANDARDS

- 10.1 PK.C
- 16.2 PK.A



### ACTIVITY/CONCENTRATION

#### TABLE ACTIVITY - HOMEMADE CONSTELLATIONS

Instruct children to create star patterns using supplies provided. Imagery of constellations can prompt children to envision their own night sky.

- **STEP 1:** Provide the children each with a black piece of construction paper.
- **STEP 2:** Using a white crayon, children write their names either independently or with the teacher's assistance.
- **STEP 3:** The children can use star stickers to create points at the ends of each letter.
- **STEP 4:** If children would like to decorate the surrounding area with more stickers or fun shapes they can if time allows.



## DURATION/SCHEDULE

15 minutes – 10:55 to 11:10 a.m.



## MATERIALS

- White crayons
- Black construction paper
- Star stickers



## LEARNER MODIFICATIONS



## GOALS/OBJECTIVES

- Produce and explain the purpose for a new creation
- With prompting and support, make logical connections between drawing and dictation
- Identify objects that can be found in the day or night sky
- Use tools that require use of fingers, hands, and/or wrists to accomplish a task



## STANDARDS

- AL.3 PK.B
- 1.4 PK.D
- 3.3 PK.B
- 10.5 PK.C



## ACTIVITY/CONCENTRATION

### CENTER PLAY - LIBRARY CENTER

In the Library center, invite the children to read stories about the stars and to look at pictures of the galaxy. If a puppet theater is available, put on a puppet show about stars and traveling to new locations.



## DURATION/SCHEDULE

30 minutes – 11:10 to 11:40 a.m.



## MATERIALS

- Books about stars
- Books or images of galaxies

- Puppets (as available)



## LEARNER MODIFICATIONS



## GOALS/OBJECTIVES

- Identify basic features of print

- Recognize there are socially acceptable ways to behave in different places



## STANDARDS

- 10.1 PK.B

- 16.3 PK.B



## ACTIVITY/CONCENTRATION

### STORY TIME

Read a book about Space.



## DURATION/SCHEDULE

10 minutes – 11:40 to 11:50 a.m.



## MATERIALS

- Picture book



## LEARNER MODIFICATIONS



## GOALS/OBJECTIVES

- Identify basic features of print
- Answer questions about a text

- Respond to questions and prompts about characters, settings, and events during a read-aloud



## STANDARDS

- 1.1 PK.B
- 1.2 PK.B

- 1.3 PK.C



## ACTIVITY/CONCENTRATION

### CIRCLE TIME/PICK-UP

- Discuss today's activities.
- Sing a song related to Space.



## DURATION/SCHEDULE

10 minutes – 11:50 a.m. to 12 p.m.



## MATERIALS

- Multi-media player



## LEARNER MODIFICATIONS



## GOALS/OBJECTIVES

- Respond to different types of music and dance through participation and discussion
- Interact with peers and adults in a socially acceptable manner
- Recognize there are socially acceptable ways to behave in different places



## STANDARDS

- 9.1.M PK.B
- 16.2 PK.A
- 16.3 PK.B



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## REFLECTION NOTES

# DAY 4 – THE SUN AND THE MOON



## ACTIVITY/CONCENTRATION

### ARRIVAL ACTIVITY - SPACE PUZZLES

Children complete puzzles that include images of space, stars, the sky, or other related topics.



## DURATION/SCHEDULE

20 minutes – 9 to 9:20 a.m.



## MATERIALS

- Puzzles



## LEARNER MODIFICATIONS



## GOALS/OBJECTIVES

- Use hands, fingers, and wrists to manipulate objects
- Coordinate eye and hand movements to perform a task



## STANDARDS

- 10.5 PK.A
- 10.5 PK.B



## ACTIVITY/CONCENTRATION

### CIRCLE TIME

- Attendance
- Weather
- Calendar
- Flag
- Have a discussion about the Moon and the Sun.
- Ask children to tell us what they know about the moon and the sun.
- Share interesting facts about:
  - The Sun: A ball of hot plasma in the center of our solar system. The Sun is a star, brighter than most of the stars in the Milky Way! The Sun is very important to the Earth for many reasons. It brings us light and warmth, which helps to keep our Earth alive. Because the Sun is so big, all the planets in our solar system orbit or spin around the Sun.
  - The Moon: The Moon is not very big but is close enough to the Earth to see from our surface. The Moon is like a giant rock in the sky. It has massive craters on its surface. The Moon is very cold and has no atmosphere which means that you cannot live on the Moon. You would need a spacesuit to survive on the Moon with very heavy boots because the Moon also has no gravity. Gravity is what holds things to the ground.



## DURATION/SCHEDULE

15 minutes – 9:20 to 9:35 a.m.



## MATERIALS

- Pointer
- Flag
- Calendar
- Weather chart



## LEARNER MODIFICATIONS



## GOALS/OBJECTIVES

- Relate information and/or experiences from the past
- Relate personal experiences during school activities
- Identify objects that can be found in the day or night sky



## STANDARDS

- AL.2 PK.E
- AL.4 PK.A
- 3.3 PK.B.1



## ACTIVITY/CONCENTRATION

### THEMED ACTIVITY - ASTEROID TOSS

- **STEP 1:** Have the children each crumple up aluminum foil into balls.
- **STEP 2:** Have the children stand in a line to wait their turn.
- **STEP 3:** Children can take turns trying to throw their asteroid into the hole in the cardboard box.
- **STEP 4:** As the asteroids compile by the hole, the teacher should collect them and let the children try again.



## DURATION/SCHEDULE

20 minutes – 9:35 to 9:55 a.m.



## MATERIALS

- Aluminum foil
- Cardboard
- Tape
- Basket





## LEARNER MODIFICATIONS



### GOALS/OBJECTIVES

- Demonstrate coordination of body movements in active play
- Engage in large motor activities that require strength and balance



### STANDARDS

- 10.4 PK.A
- 10.4 PK B



### ACTIVITY/CONCENTRATION

#### BATHROOM BREAK



### DURATION/SCHEDULE

15 minutes – 9:55 to 10:10 a.m.



### GOALS/OBJECTIVES

- Walk in line
- Tend to own toileting needs
- Practice proper hand washing procedures



### STANDARDS

- 10.2 PK.A



### ACTIVITY/CONCENTRATION

#### OUTSIDE PLAY - SUN PAINTING

With assistance from the teacher, children use sunscreen to paint images onto darker colored construction paper. While the children play, the papers are to be left in the sun to fade. Watch as the sunscreen protects the paper's color and the sun fades the rest of the paper to reveal the painted images.



### DURATION/SCHEDULE

30 minutes – 10:10 to 10:40 a.m.



### MATERIALS

- Sunscreen
- Dark colored construction paper
- Paintbrushes



## LEARNER MODIFICATIONS



### GOALS/OBJECTIVES

- Use outdoor gross motor equipment
- Interact with peers and adults in a socially acceptable manner



## STANDARDS

- 10.4 PK.A
- 16.2 PK.A



## ACTIVITY/CONCENTRATION

### SNACK



## DURATION/SCHEDULE

15 minutes – 10:40 to 10:55 a.m.



## GOALS/OBJECTIVES

- Identify foods that keep our body healthy
- Interact with peers and adults in a socially acceptable manner



## STANDARDS

- 10.1 PK.C
- 16.2 PK.A



## ACTIVITY/CONCENTRATION

### TABLE ACTIVITY - MOON DUST WRITING

- **STEP 1:** Each child gets a tray with sand on it. Tell the children that the sand is “Moon sand.”
- **STEP 2:** Children can use their fingers to write in the moon sand.
- **STEP 3:** Instruct the children to write various letters, numbers, or their names.



## DURATION/SCHEDULE

15 minutes – 10:55 to 11:10 a.m.



## MATERIALS

- Trays
- Sand



## LEARNER MODIFICATIONS



## GOALS/OBJECTIVES

- Recognize and name some upper- and lower-case letters
- Spell simple words phonetically
- Experiment with different types of earth materials
- Practice fine motor development



## STANDARDS

- 1.1 PK.B
- 1.4 PK.R
- 3.3 PK.A.7
- 10.5 PK.A



## ACTIVITY/CONCENTRATION

### CENTER PLAY - PUZZLES

Find and complete various space related puzzles in the puzzle center. Offer printed images of stars and galaxies cut into shapes or pieces for the children to assemble.



## DURATION/SCHEDULE

30 minutes – 11:10 to 11:40 a.m.



## MATERIALS

- Space puzzles
- Images of stars/galaxies



## LEARNER MODIFICATIONS



## GOALS/OBJECTIVES

- Engage in complex play sequences with two or more children
- Work toward completing a task, even if challenging, and despite interruptions
- Relate knowledge learned from one experience to a similar experience in a new setting



## STANDARDS

- AL.1 PK.C
- AL.2 PK.A
- AL.4 PK.A



## ACTIVITY/CONCENTRATION

### STORY TIME

Read a book about Space.



## DURATION/SCHEDULE

10 minutes – 11:40 to 11:50 a.m.



## MATERIALS

- Picture book



## LEARNER MODIFICATIONS



### GOALS/OBJECTIVES

- Practice listening skills
- Make predictions
- Discuss story elements



### STANDARDS

- 1.1 PK.A-E
- 1.2 PK.B-E
- 1.3 PK.C-G



### ACTIVITY/CONCENTRATION

#### CIRCLE TIME/PICK-UP

- Discuss today's activities.
- Sing a song related to Space.



### DURATION/SCHEDULE

10 minutes – 11:50 a.m. to 12 p.m.



### MATERIALS

- Multi-media player



## LEARNER MODIFICATIONS



### GOALS/OBJECTIVES

- Respond to different types of music and dance through participation and discussion
- Interact with peers and adults in a socially acceptable manner
- Recognize there are socially acceptable ways to behave in different places



### STANDARDS

- 9.1.M PK.B
- 16.2 PK.A
- 16.3 PK.B



## REFLECTION NOTES

# DAY 5 – LANDING ON THE PLANETS



## ACTIVITY/CONCENTRATION

### ARRIVAL ACTIVITY - CREATE YOUR OWN PLANET

Children are given the Activity page: Create A Planet (provided in the Additional Resources) which they will follow along with to create their own planets. Children can answer simple questions to describe their planet and decide the elements and details of their creations.



## DURATION/SCHEDULE

20 minutes – 9 to 9:20 a.m.



## MATERIALS

- Activity page: Create a Planet (provided in the Additional Resources)
- Crayons



## LEARNER MODIFICATIONS



## GOALS/OBJECTIVES

- Use imagination and creativity to express self through visual arts
- Use hands, fingers, and wrists to manipulate objects
- Coordinate eye and hand movements to perform a task



## STANDARDS

- 9.1.V PK.E
- 10.5 PK.A
- 10.5 PK.B





## ACTIVITY/CONCENTRATION

### CIRCLE TIME

- Attendance
- Weather
- Calendar
- Flag
- Discuss planets. Ask children to name planets they know of.
- Share interesting facts about space:



Solar System Planets

Scan the QR code above to look at each planet individually as there's interesting information on each of them.



NASA.gov

The QR code above has live feeds to view the solar system and galaxy. Scan to learn more about the solar system.

- Our solar system consists of the planets, starting nearest to the sun and working outward is the following: Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus, Neptune and then the possible Planet Nine.
- All the planets in our solar system orbit or spin around the sun.
- Scientists guess that the end of the solar system is about 9 billion miles from the sun.
- As far as we have discovered, none of our planets except Earth has life on it. That means that we are the only planet that humans can live on.



## DURATION/SCHEDULE

15 minutes – 9:20 to 9:35 a.m.



## MATERIALS

- Pointer
- Flag
- Calendar
- Weather chart
- Multi-media player



## LEARNER MODIFICATIONS



### GOALS/OBJECTIVES

- Relate information and/or experiences from the past
- Relate personal experiences during school activities
- Identify objects that can be found in the day or night sky



### STANDARDS

- AL.2 PK.E
- AL.4 PK.A
- 3.3 PK.B.1



### ACTIVITY/CONCENTRATION

#### THEMED ACTIVITY - BUILD YOUR OWN PLANET

- Make batches of play dough in the colors of the planets then set aside the batch for a later activity (or just make a large batch of play dough to model the size comparison of the planets). Let the kids help mix up the batch. All ages love it!
- This recipe makes individual size batches of play dough that kids can mix up in a paper bowl. You can double or triple the recipe to make a larger batch to share.
  - 1 cup flour
  - 1/2 cup salt
  - 1 tablespoon vegetable oil
  - 1/2 cup warm water (the mixture doesn't have to be super-hot, but not cold.)
  - 2-3 drops food coloring (add more coloring for darker colors.)
- **STEP 1:** Combine flour and salt in a medium bowl. (If kids are doing this in an individual batch, let them stir with a large craft stick or plastic spoon). Slowly stir in oil, warm water, and 2-3 drops of food coloring (can be added to the water) until the mixture is well combined.
- **STEP 2:** Transfer the dough to a flat surface and let it sit for a few minutes. It may feel a bit sticky, but DO NOT add more flour. As the dough sits, the salt will absorb the extra moisture. Knead well.
- **STEP 3:** If your dough is sticky after a few minutes, add an additional 2 tablespoons of flour at a time until it is the perfect consistency. (In my experience making this many times with kids, more flour is needed.) Sprinkle flour on top of the play dough and on the table and let the kids knead it into dough until it reaches the right consistency.
- **STEP 4:** Play with the proportions until you reach the right consistency. If the mixture is too wet, add flour a little at a time; or if it's too dry, add a few drops of water at a time.
- **STEP 5:** Store the dough in airtight containers or sealable bags.



## DURATION/SCHEDULE

20 minutes – 9:35 to 9:55 a.m.



## MATERIALS

- 1 cup flour
- 1/2 cup salt
- 1 tablespoon vegetable oil

- 1/2 cup warm water (doesn't have to be super-hot, but not cold)
- 2-3 drops food coloring (more for darker colors)



## LEARNER MODIFICATIONS



## GOALS/OBJECTIVES

- Practice using measurement vocabulary
- Engage in activities that include measuring

- Work together with peers and adults in a socially acceptable manner



## STANDARDS

- 2.4 PK.A.1
- 2.4 PK.MP

- 16.2 PK.A



## ACTIVITY/CONCENTRATION

### BATHROOM BREAK



## DURATION/SCHEDULE

15 minutes – 9:55 to 10:10 a.m.



## GOALS/OBJECTIVES

- Walk in line
- Tend to own toileting needs

- Practice proper hand washing procedures



## STANDARDS

- 10.2 PK.A



## ACTIVITY/CONCENTRATION

### OUTSIDE PLAY - CHALK SOLAR SYSTEM

Have the children use chalk to draw their own solar system on the sidewalk. Encourage them to use their imagination to think of planets of all sizes, shapes, and colors.



## DURATION/SCHEDULE

30 minutes – 10:10 to 10:40 a.m.



## MATERIALS

- Chalk



## LEARNER MODIFICATIONS



## GOALS/OBJECTIVES

- Use imagination and creativity to express self through visual arts
- Use outdoor gross motor equipment



## STANDARDS

- 9.1.V PK.E
- 10.4 PK.A



## ACTIVITY/CONCENTRATION

### SNACK



## DURATION/SCHEDULE

15 minutes – 10:40 to 10:55 a.m.



## GOALS/OBJECTIVES

- Identify foods that keep our body healthy
- Interact with peers and adults in a socially acceptable manner



## STANDARDS

- 10.1 PK.C
- 16.2 PK.A



## ACTIVITY/CONCENTRATION

### TABLE ACTIVITY - EARTH TISSUE PAPER

- **STEP 1:** Provide each child with one paper plate. Explain to the children that they are making their own Earth crafts. The Earth looks blue, green, and white from space.
- **STEP 2:** Using a glue stick, have the children fill their paper plates with glue. Remind them that the glue dries quickly so they need to use tissue paper quickly or reapply glue.
- **STEP 3:** Children can stick blue, green, and white tissue paper pieces to their plates. Blue paper represents water, green represents land, and white paper represents clouds or atmosphere.
- **STEP 4:** Make sure the pieces are stuck by holding the plate up. Leave the craft to dry.



## DURATION/SCHEDULE

15 minutes – 10:55 to 11:10 a.m.



## MATERIALS

- Tissue paper cut into small squares (blue, green and white)

- Paper plates
- Glue sticks



## LEARNER MODIFICATIONS



## GOALS/OBJECTIVES

- Participate in simple investigations of the objects found in the day or night sky to answer a question or to test a prediction

- Combine a variety of materials to create a work of art
- Use hands, fingers, and/or wrists to manipulate objects



## STANDARDS

- 3.3 PK.B.3
- 9.1.V PK.B

- 10.5 PK.A



## ACTIVITY/CONCENTRATION

### CENTER PLAY - ART

In art, encourage the children to create their own planets using a variety of materials available. Offer markers, crayons, pencils, scrap paper and glue. Provide a variety of circle cut outs to encourage planet shaping.



## DURATION/SCHEDULE

30 minutes – 11:10 to 11:40 a.m.



## MATERIALS

- Glue
- Markers
- Crayons

- Pencils
- Scrap paper
- Circles from paper in various sizes



## LEARNER MODIFICATIONS



### GOALS/OBJECTIVES

- Engage in complex play sequences with two or more children
- Work toward completing a task, even if challenging, and despite interruptions
- Relate knowledge learned from one experience to a similar experience in a new setting



### STANDARDS

- AL.1 PK.C
- AL.2 PK.A
- AL.4 PK.A



### ACTIVITY/CONCENTRATION

#### STORY TIME

Read a book about Space.



### DURATION/SCHEDULE

10 minutes – 11:40 to 11:50 a.m.



### MATERIALS

- Picture Book



## LEARNER MODIFICATIONS



### GOALS/OBJECTIVES

- Identify basic features of print
- Answer questions about a text
- Respond to questions and prompts about characters, settings, and events during a read-aloud



### STANDARDS

- 1.1 PK.B
- 1.2 PK.B
- 1.3 PK.C



### ACTIVITY/CONCENTRATION

#### CIRCLE TIME/PICK-UP

- Discuss today's activities.
- Sing a song related to Space.



### DURATION/SCHEDULE

10 minutes – 11:50 a.m. to 12 p.m.





## MATERIALS

- Multi-media player



## LEARNER MODIFICATIONS



## GOALS/OBJECTIVES

- Respond to different types of music and dance through participation and discussion
- Interact with peers and adults in a socially acceptable manner
- Recognize there are socially acceptable ways to behave in different places



## STANDARDS

- 9.1.M PK.B
- 16.2 PK.A
- 16.3 PK.B



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## REFLECTION NOTES

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# UNIT REFLECTION NOTES

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# ADDITIONAL RESOURCES

## BOOKS

- *Pete the Cat Out of This World* by James Dean and Kimberly Dean
- *Our Stars* by Anne Rockwell
- *Moons First Friends* by Susanna Leonard Hill
- *Hello World! Solar System* by Jill McDonald

## SUGGESTED GUEST SPEAKERS

- Meteorologist
- Weather Forecaster
- <https://www.nasa.gov/nasalive> (Live stream of NASA events)
- <https://www.cnet.com/science/step-aboard-the-space-shuttle-discovery-with-googles-8k-virtual-tour/> (Space Shuttle discovery tour)

## WEBSITES

- NASA Explore Astronauts - <https://www.nasa.gov/astronauts>
- NASA Live for Students Grades K-4 - <https://www.nasa.gov/learning-resources/for-students-grades-k-4/>
- NASA/ The Space Place – Explore Earth and Space - <https://spaceplace.nasa.gov/galaxy/en/>

## SONGS/VIDEOS

- Sun, Moon, and Stars | The Singing Walrus | Songs for kids - <https://www.youtube.com/watch?v=vcUyDAO1Fk0>
- Planets Song | Solar System Song | The Singing Walrus - <https://www.youtube.com/watch?v=stnU6xfbjew>
- The Planet Song - 8 Planets of the Solar System Song for Kids | KidsLearningTube - <https://www.youtube.com/watch?v=mQrlgH97v94>
- Dancing Robots Song 🎵 Brain Breaks, Action & Dance Song 🎵 Kids Songs by The Learning Station - <https://www.youtube.com/watch?v=-mZHBSxfamk>
- "Space Race!" Planet Song 🚀 🌟 /// Danny Go! Brain Break Dance Songs for Kids - <https://www.youtube.com/watch?v=9Sv-CXY2soo>
- "Happy Moon" 😊 /// Danny Go! Kids Songs About Space - <https://www.youtube.com/watch?v=7eJswV4S830>

# Songs

I'm a little rocket

"I'm a little rocket; pointing at the moon; Now I'm getting fueled up; we'll be ready soon. When it's time to board me, then I'll say; Blast off! Zoom! We're on our way!" (tune to I'm a little teapot)

Climb aboard the spaceship

Climb aboard the spaceship, we're going to the moon, hurry and get ready, we're going to blast off soon. Put on your helmets and buckle up real tight. Here comes the countdown, let's count with all our might. 10-9-8-7-6-5-4-3-2-1-BLAST OFF! ( tune to itsy bitsy spider)

5 Little stars

5 little stars were out one night: gold and silver, shiny and bright. Up came the sun with morning's light; One little star winked out of sight. 4, 3, 2... 1 little star was out one night; gold and silver, shiny and bright. Up came the sun with morning's light. That little star winked out of sight- Hello day! Goodbye night! (tune to 5 little ducks)

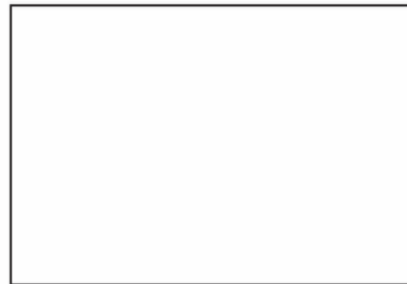
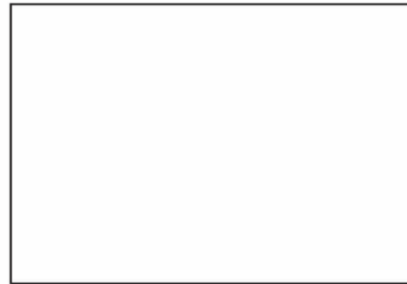
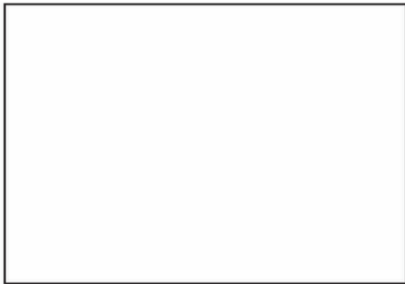
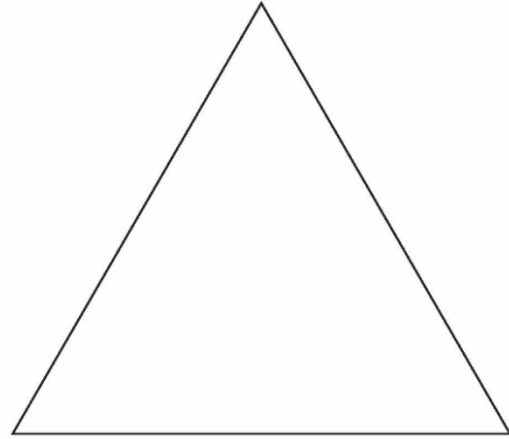
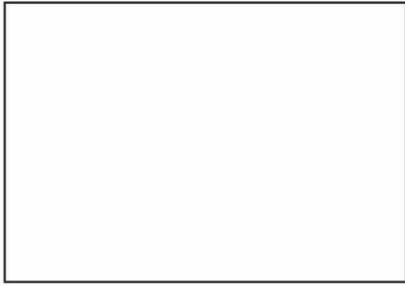
Night Sky

In the night sky, in the night sky, I see [stars], I see [stars], glowing all around me, glowing all around me, what a sight, what a sight! - repeat the song, replacing [stars] with various space words such as moon, sun, planets. (tune to are you sleeping)

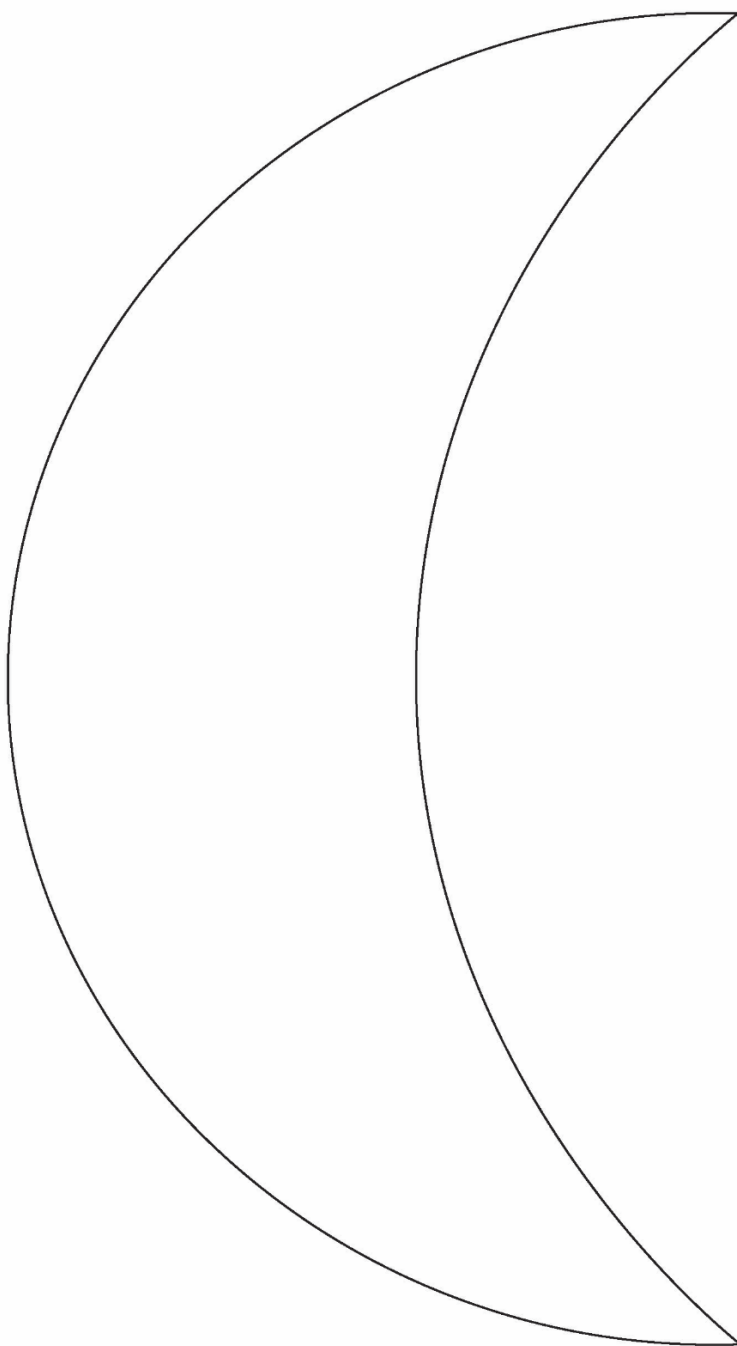
Alien, Alien

Alien, Alien turn around. Alien, Alien touch the ground. Alien, Alien fly your ship. Alien, Alien say "Blip, blip!" Alien, Alien reach the stars. Alien, Alien jump so far! Alien, Alien tie your shoe Alien, Alien that will do. Alien, Alien turn out the light. Alien, Alien say good-night!

# Rocket Template



# Moon Template

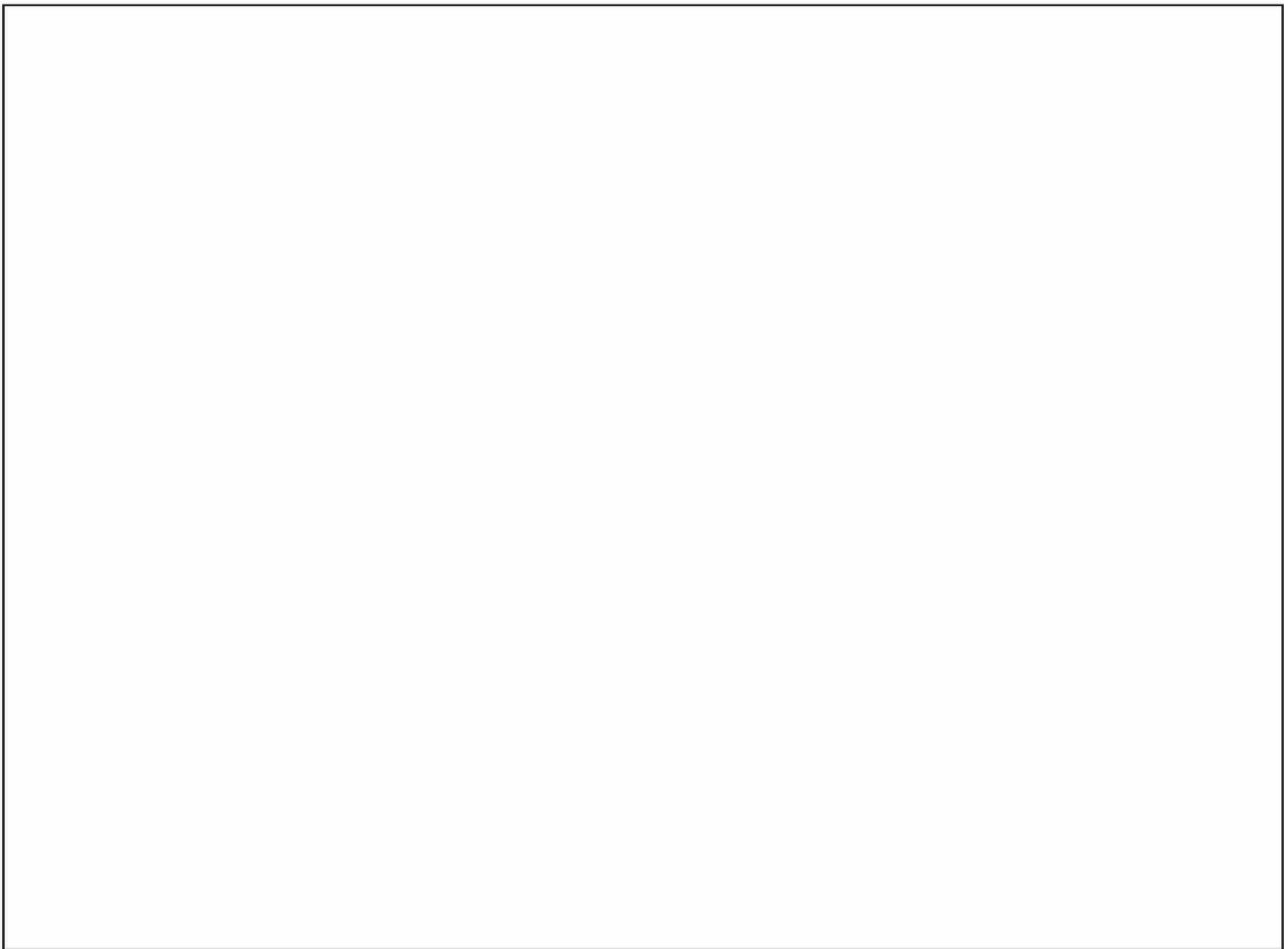




# Create A Planet

Name of Your Planet:

What Color is Your Planet:



Draw and Color Your Planet

# Star Template

