

NEXT STOP SPACE

5 DAYS OF THEMED SCHOOL-AGE
SUMMER CAMP LESSONS

**BEST
DAY
EVER!**

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NEXT STOP SPACE

Campers will blast off into space to explore the solar system. They will be so busy exploring, inquiring, and discovering they won't even realize they are learning key Earth and Space Sciences concepts during this "Next Stop Space" unit! While the lesson plan incorporates many different Pennsylvania Learning Standards, it focuses on the key learning area of "Approaches to Learning through Play." Specifically, children will learn to engage in learning activities that meet the PA Standard Areas of "Constructing, Organizing, and Applying Knowledge."

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SCHEDULE

DAY 1

ARRIVAL ACTIVITY	20 MINUTES
READY, SET, LEARN	15 MINUTES
HANDS-ON ACTIVITY - PLANET PLAY DOUGH (PART ONE)	20 MINUTES
BREAK/SNACK TIME	15 MINUTES
LET'S GET MOVING - ASTRONAUT TRAINING	30 MINUTES
HANDS-ON ACTIVITY - PLANET PLAY DOUGH (PART TWO)	15 MINUTES
BREAK/LUNCH TIME	15 MINUTES
HANDS-ON ACTIVITY - STRETCHY SPACE SLIME	30 MINUTES
SOCIAL-EMOTIONAL LEARNING - FROM FARMER TO ASTRONAUT	30 MINUTES
HANDS-ON ACTIVITY - EARTH-SUN-MOON MODEL	30 MINUTES
WRAP UP/GOODBYES	10 MINUTES
LATE PICK-UP	15 MINUTES

DAY 2

ARRIVAL ACTIVITY	20 MINUTES
READY, SET, LEARN	15 MINUTES
HANDS-ON ACTIVITY - SUNSCREEN PAINTING	20 MINUTES
BREAK/SNACK TIME	15 MINUTES
LET'S GET MOVING - SHADOW TAG	30 MINUTES
HANDS-ON ACTIVITY - WILL IT MELT?	15 MINUTES
BREAK/LUNCH TIME	15 MINUTES
HANDS-ON ACTIVITY - SUNSET IN A JAR	30 MINUTES
SOCIAL-EMOTIONAL LEARNING - SUNSHINE ON A CLOUDY DAY	30 MINUTES
HANDS-ON ACTIVITY - SUN SPIN ART	30 MINUTES
WRAP UP/GOODBYES	10 MINUTES
LATE PICK-UP	15 MINUTES

DAY 3

ARRIVAL ACTIVITY	20 MINUTES
READY, SET, LEARN	15 MINUTES
HANDS-ON ACTIVITY - FOIL PRINTED MOON CRAFT	20 MINUTES
BREAK/SNACK TIME	15 MINUTES
LET'S GET MOVING - MOON BALL	30 MINUTES
HANDS-ON ACTIVITY - MOON PHASES CUP BALL	15 MINUTES
BREAK/LUNCH TIME	15 MINUTES

HANDS-ON ACTIVITY - MOON SAND	30 MINUTES
SOCIAL-EMOTIONAL LEARNING - ROCKET REGULATION	30 MINUTES
HANDS-ON ACTIVITY - MOON CRATERS	30 MINUTES
WRAP UP/GOODBYES	10 MINUTES
LATE PICK-UP	15 MINUTES

DAY 4

ARRIVAL ACTIVITY	20 MINUTES
READY, SET, LEARN	15 MINUTES
HANDS-ON ACTIVITY - CONSTELLATION WIRE SCULPTURES	20 MINUTES
BREAK/SNACK TIME	15 MINUTES
LET'S GET MOVING - HUMAN CONSTELLATIONS	30 MINUTES
HANDS-ON ACTIVITY - DRAW THE GALAXY	15 MINUTES
BREAK/LUNCH TIME	15 MINUTES
HANDS-ON ACTIVITY - YOUR NAME IN STARS	30 MINUTES
SOCIAL-EMOTIONAL LEARNING - REACH FOR THE STARS VISION BOARDS	30 MINUTES
HANDS-ON ACTIVITY - CATCH THE STARS	30 MINUTES
WRAP UP/GOODBYES	10 MINUTES
LATE PICK-UP	15 MINUTES

DAY 5

ARRIVAL ACTIVITY	20 MINUTES
READY, SET, LEARN	15 MINUTES
HANDS-ON ACTIVITY - ALIEN SAMPLES	20 MINUTES
BREAK/SNACK TIME	15 MINUTES
LET'S GET MOVING - SPACE TAG	30 MINUTES
HANDS-ON ACTIVITY - EXTRA TERRESTRIAL GUMMIES	15 MINUTES
BREAK/LUNCH TIME	15 MINUTES
HANDS-ON ACTIVITY - ALIEN ON EARTH PUPPET	30 MINUTES
SOCIAL-EMOTIONAL LEARNING - WELCOME TO EARTH	30 MINUTES
HANDS-ON ACTIVITY - 3-D ALIEN SCULPTURES	30 MINUTES
WRAP UP/GOODBYES	10 MINUTES
LATE PICK-UP	15 MINUTES

MATERIALS LIST

- Glue
- Pens
- Tape
- Pencils
- Timer
- Markers
- Crayons
- Scissors
- Picture of the solar system
- Large mixing bowls
- Wooden spoons
- Plastic wrap
- Salt
- Food coloring
- Hula hoops
- Black construction paper (11x17)
- White chalk
- Play dough
- Star stickers
- Glass jar
- Milk
- Flashlight
- Yarn pieces in yellow and orange, cut into 3' lengths - one end taped for easy bead stringing
- Borax
- Large spoon for mixing
- Silver glitter
- Wax paper
- Resealable plastic bags
- Wire brads
- Flashlight (Optional)
- Picture of the sun
- Sunscreen
- Chenille stems
- Plastic squeeze bottles
- Picture of the moon
- Aluminum foil cut into 5"x5" squares
- Paper plates
- Paint (gray, white, black)
- Beachballs
- Metal muffin tin
- Clear plastic cups (2 per child)
- Yellow paper circles 1" diameter
- Measuring spoons and cups
- Article above "From Farmer to Astronaut"
- Small yellow paper plates
- Spin art wheel or salad spinner
- Black construction paper 12" X 18"
- White adhesive labels, small
- Flour
- Vegetable oil
- Space shaped cookie cutters
- Moon sand
- Pie tins
- Small rocks or items to weigh down the paper
- Small objects for tin (paper clip, wooden block, small plastic building brick, a rock, small pieces of broken crayon, gelatin, a quarter)
- Construction paper (gray, black, white, yellow, and blue)
- Tempera paint (yellow, orange, and red)
- Small balls of varying size and weight
- Picture of the Milky Way galaxy
- Beads (stars or plain)
- Optional: glow-in-the-dark paint
- Large cardstock or cardboard stars
- Newspaper
- Oil pastels
- White acrylic paint
- Paper towels
- Paintbrushes
- Black construction paper, large
- Star stickers, white or silver
- Rulers
- White chalk
- Large stars cut out of posterboard
- Magazines for a variety of interests
- Stickers
- Boundary lines (cones, rope, tape line)
- Picture of stereotypical UFO & Aliens
- Clear plastic cups (5-8 oz.)
- Sand

- Sugar
- Yeast (instant active)
- Fizzing tablets cold medicine
- Pitcher
- Obstacle course equipment (tunnel, balance beam, ladder, bars, cones)
- Space pack (Backpack filled with heavy items)
- Gelatin mix (variety of colors and flavors)
- Corn syrup
- Electric skillet
- Whisk
- Spoon
- Silicone molds (alien/space themed)
- Refrigerator or cooler with ice
- Paper bags
- Green construction paper rectangles cut to the size of the bottom folded part of the paper bags
- Green paper half circles
- Green paper ear shapes
- White construction paper
- Colored pencils
- Play dough
- Gogly eyes in assorted sizes
- Craft sticks
- Sequins
- Straws

SHOPPING LIST

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DAY 1 – THE SOLAR SYSTEM



ACTIVITY/CONCENTRATION

EARLY DROP OFF – ARRIVAL ACTIVITY

During this free time, students will select and use toys or games associated with the daily theme.



DURATION/SCHEDULE

180 minutes – 6 to 9 a.m.



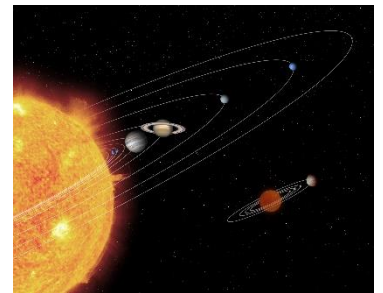
ACTIVITY/CONCENTRATION

READY, SET, LEARN

Class discussion about the solar system: Start by asking the campers if they know what the phrase “solar system” means. Have them describe what they see in the night sky. Now share the following questions and fun facts with them.

Facts:

- The solar system consists of our sun, which is a star, and all that its gravity affects. The planets in our solar system are Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus, and Neptune.
- The word “solar” comes from the Latin word “Solaris” which means of the sun.
- Everything in the solar system orbits (goes around) the sun. The sun is the only star in our solar system. The stars we see at night are beyond our solar system and part of the universe.
- What are the planets made of? The inner, rocky planets are Mercury, Venus, Earth, and Mars. The outer planets are the gas giants Jupiter and Saturn and ice giants Uranus and Neptune.
- Beyond Neptune, scientists have created a newer class of smaller worlds called dwarf planets, including Pluto.
- What else is in our solar system besides the sun, stars, and planets? Dozens of moons and millions of asteroids, comets and meteoroids of all shapes and sizes.
- The earth is actually a very small part of the solar system. If the sun were a hollow ball, it would take over one million planets the size of Earth to fill up the sun. Earth is a lot smaller than some of the planets like Jupiter and Saturn.
- What galaxy is our solar system in? The solar system is part of the Milky Way Galaxy.
- How old is the Solar System? Scientists believe that over 13 billion years ago, a hot bubble exploded in the universe. This “Big Bang” led to dust and gas forming over millions of years to eventually form the sun in the center and the planets around it to create our solar system.
- Early astronomers used only their eyes to look at the stars. Early civilizations such as the Maya people and the Ancient Egyptians built simple observatories and drew maps of the star’s positions. They used the sun and stars to tell time. For a long time, people thought that the Earth was the center of the universe, and that the planets, the stars and the sun went around it.
- What is Astronomy? During renaissance times, many advancements were made in Astronomy (the study of the universe beyond the Earth’s atmosphere). While observing the way the planets moved, a priest named Nicolaus Copernicus thought that the earth was not the center of everything, that the Earth was a planet and all the planets moved around the sun. A physicist called Galileo Galilei built his own telescopes and used them



The Solar System- Retrieved from NASA