



## Summer Learning Institute Program Course Outline

### **I Want to be an Astronaut**

Discover the stars, planets, and the Milky Way Galaxy while learning about the life of an astronaut. Your future astronaut will enjoy hands-on crafts that will allow them to design their own rockets, craft alien friends, and create a personalized astronaut helmet. Fly through our Solar System and learn about each of the planets in our Lohman Family Planetarium.

All program classes are organized to address the following aspects:

- STEM/STEAM Education.
- Cultivate an interest in Art, Science, and History.
- Continued knowledge and comprehension regarding Volusia County School Standards.
- Develop interpersonal skills such as teamwork and problem solving.
- Foster curiosity and imagination of the world around us.

**Pre-requisites:** None

**Date:** July 22-26

**Software/Materials/Books/Media:** Handouts and materials provided in class.

*Exhibits/Galleries that correspond with camp:*

- Children's Museum
- Lohman Planetarium
- Planetarium Lobby

### **Course Objectives:**

*Students will:*

- *Learn about our Solar System.*
- *Learn about gas vs rocky planets.*
- *Learn about different constellations.*
- *Learn about rockets.*
- *Learn about how stars are formed.*
- *Learn about what an astronaut does.*

## 5 Day Course Outline Example:

*Schedules must consider, lunch time, snack time, free play, and lessons in the gallery. All movies/shows must be approved by MOAS staff prior to viewing.*

- Day One: Story time, what is an astronaut, The Solar System craft, Hands on Solar System activity (Science Night kit), Design your own alien life (NISE Kit), handprint alien craft.
- Day Two: Story time, Nebula spin art, Handprint Galaxy Art Project, Visit the Planetarium Lobby to view the Hubble and James Webb images, Galaxy in a Jar activity.
- Day Three: Story time, Planetarium show (Little Star), Hands on Lunar Dust simulator (bring to classroom while campers are in planetarium show, Foil Printed Moon craft, NISE themed what's on the moon story/activity.
- Day Four: Story time, spell out camper's name to build rocket craft, Rocket launch (can be done in auditorium if weather is bad), astronaut helmet craft, Hands on gravity well activity.
- Day Five: Story time, asteroid toss activity, Oreo cookie Moon phase activity, NISE Star Formation activity, Hole punch constellations, Space themed Yoga activity.

## Assessment:

*Student's ability to demonstrate the following:*

1= Below Expected Outcome

3= Meets Expected Outcome

5=Exceeds Expected Outcome

<b>The Student Has:</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>
Demonstrated knowledge and understanding of the planets in our solar system					
Demonstrated knowledge and understand of how stars are formed					
Demonstrated knowledge and understand of what constellations are					