

# MBCI NASA Center

# F I C H I K M A L A T O A L H Í H A !

September 2022

## MBCI NASA Teacher Enhancement Center September Activities

NASA Center Staff  
Tracey Hartness NASA Center Coordinator  
Jose Cruz NASA Center Assistant

September 8, 2022

Science Fair Coordinator Workshop

September 12, 2022

Pearl River Elementary School  
LEGO Robotics Introduction

September 15, 2022

Bogue Chitto Elementary School  
LEGO Robotics Introduction

September 16, 2022

Nanih Waiya Attendance Center  
Water Rockets

September 17, 2022

Boys & Girls Club's Day for Kids

September 27, 2022

Conehatta Elementary School  
Kaleidoscope/ Artemis

September 28, 2022

Standing Pine Elementary School  
Solar System

September 30, 2022

Tucker Elementary School  
Princess & The Frog

## Astronomical Events 2022

1. Oct 8-9: Draconid Meteor Shower
2. Oct 9: Hunter's/ Full Moon
3. Oct 21-22: Orionid Meteor Shower
4. Oct 25: New Moon
5. Nov 7-8: Total Lunar Eclipse

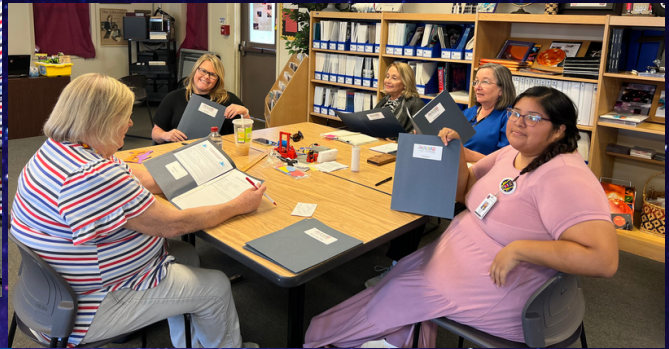




## SCIENCE FAIR COORDINATOR WORKSHOP



*The NASA Teacher Enhancement Center held the Choctaw Tribal Schools Local Science & Engineering Coordinator workshop. The workshop allowed each of these coordinators to gather vital information to help their students prepare for the Choctaw Tribal Schools District Science Fair and Region V State Science Fair held at Mississippi State.*



## PRES LEGO ROBOTICS INTRODUCTION

The NASA Center visited with Ms. Seward at Pearl River Elementary School to conduct a LEGO Robotics introductory course. This year the Choctaw Tribal Schools will implement the new SPIKE Robot that LEGO Education has designed. Ms. Seward is the TAG teacher at PRES and is a mentor for two LEGO Robotics teams. With the LEGO Robotics introductory course, Ms. Seward became familiar with the SPIKE robot capabilities, ensured all software is working properly, and most importantly is excited to work with her students to compete in the Choctaw Tribal Schools FIRST LEGO League Competition in January.



## BCES LEGO ROBOTICS INTRODUCTION

Staff from the NASA Center visited Mrs. Franklin at Bogue Chitto Elementary School for LEGO Robotics orientation. During the orientation, Mrs. Franklin learned what is required for a new team, the 2023 LEGO League Challenge, and resources readily available to her. Her students are excited to take on the challenges that come with being a LEGO robotics team at Bogue Chitto Elementary School.





# NANIH WAIYA WATER ROCKETS

*Staff traveled to Nanih Waiya Attendance Center to conduct a class favorite, water rockets! Students engineered their own water rockets out of 16 oz coke bottles, hot glue, and paper plates. Once the engineering phase was completed, students prepared for the launch phase. Each rocket is filled with a 1 cup of water and then is attached to an air pump. Once the rockets were pressurized with approximately 50 psi, they were ready to orbit the Earth.*

## DAY FOR KIDS

*Even on weekends, the NASA Center gets involved with the community. The Boys and Girls Club held their annual Day for Kids on September 17, 2022. Staff brought out totes and totes of endless LEGOs for the children to build various projects. With the help of the Choctaw Central High School Robotics Team, the children were able to engineer any project that came to mind. While helping the children with LEGO engineering, the high school robotics team had the privilege to meet with Chief Cyrus Ben and Pearl River Councilman Kent Wesley.*



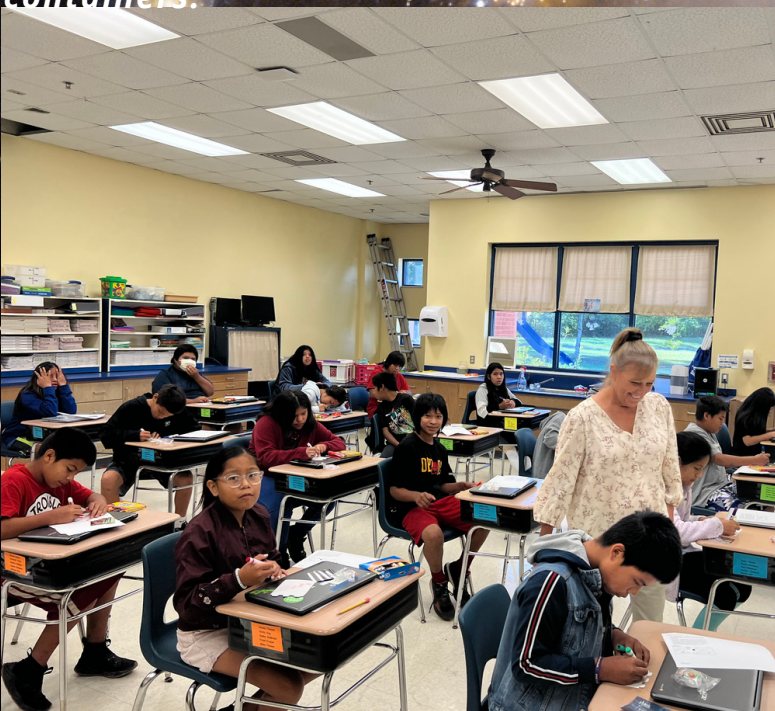
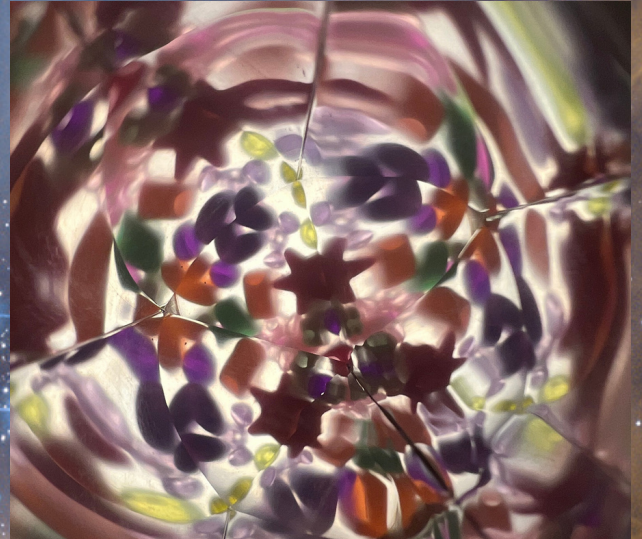


# DAY FOR KIDS



## CONEHATTA KALEIDOSCOPE

*Staff from the NASA Center traveled to Conehatta Elementary School to conduct an enjoyable kaleidoscope lesson with fifth graders. A kaleidoscope is an optical device that uses reflection to create a symmetrical geometric design through a viewer. Every student created their personalized kaleidoscope using beads, reflective material, cardboard, and plastic containers.*



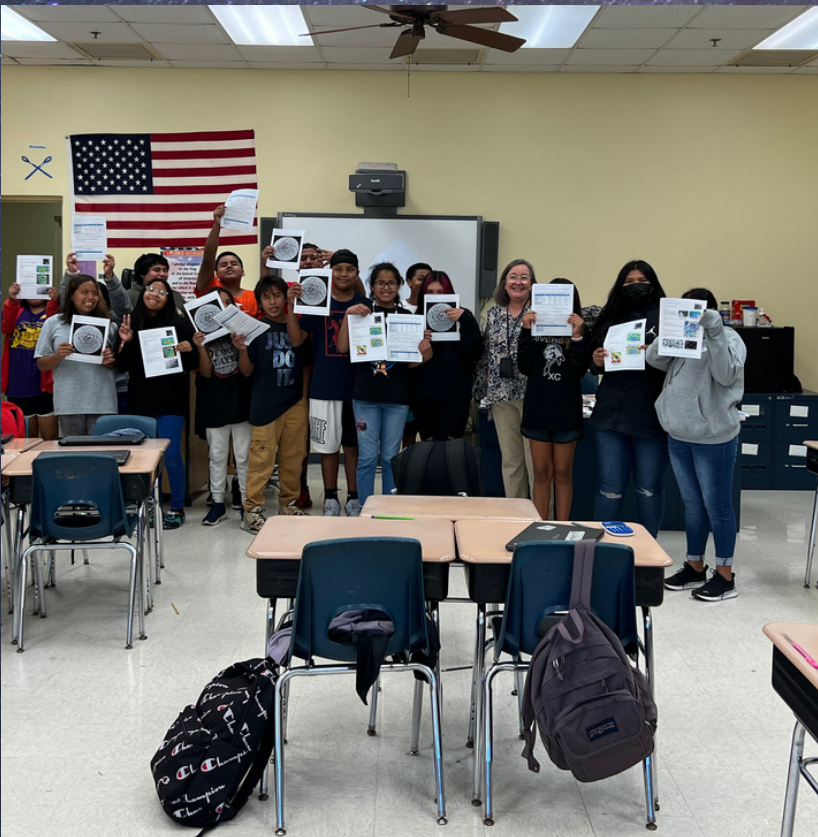
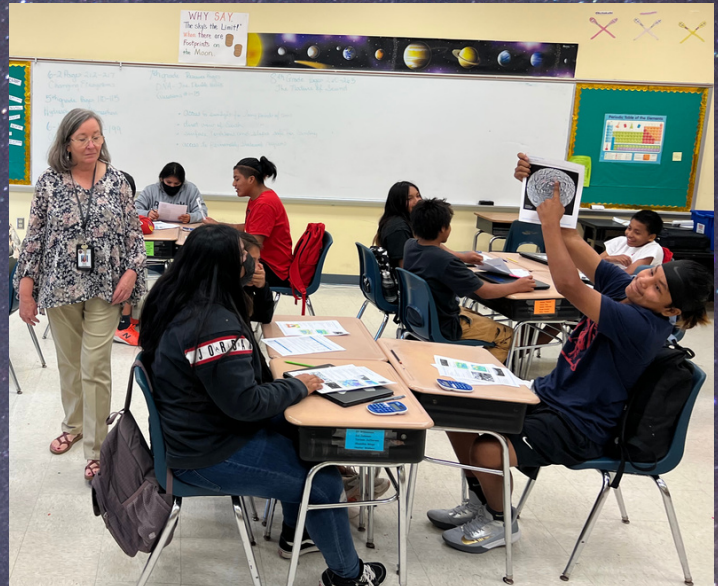


# CONEHATTA ARTEMIS 1

*In addition to the kaleidoscopes, another class from CES had the opportunity to participate in the NASA Center's newest workshop, Artemis. As NASA prepares to launch Artemis 1, students were broken into teams to evaluate and analyze data from five different landing zones on the moon. After discussing the best possible landing zone for Artemis 1, each team presented their findings to the class.*

## FUN FACTS

1. ARTEMIS 1 WILL ACCELERATE AT 17,000 MPH DURING THE FIRST 8 MINUTES OF FLIGHT
2. ORION CAN ACCOMMODATE 4 CREW MEMBERS FOR 21 DAYS
3. EVERY STATE IN THE COUNTRY CONTRIBUTED TO THE SUCCESS OF ARTEMIS





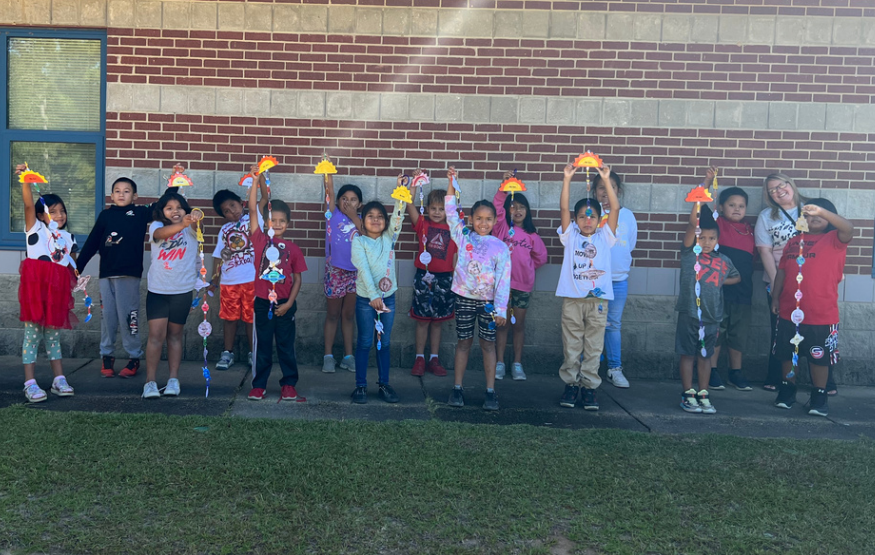
# SOLAR SYSTEM



*A NASA Center favorite is working with the younger students at the Tribal schools. Mrs. Lacey Watkins invited the NASA Center to Standing Pine to introduce her class to the solar system. Students were attentive as they learned about the solar system, difference between stars and planets, rules for being a planet, the order of our solar system, and created a solar system model.*

## FUN FACTS

1. THE SOLAR SYSTEM HAS 8 PLANETS
2. THE SOLAR SYSTEM FORMED 4.6 BILLION YEARS AGO
3. THE SUN IS 93 MILLION MILES FROM EARTH
4. THERE ARE 181 MOONS IN THE SOLAR SYSTEM





# PRINCESS & THE FROG

A special activity the NASA Center conducted is the Princess and The Frog. With a helping hand from Tucker Elementary sixth graders, the pre-k students were able to customize their own crowns and engineer frogs on a lily pad. The fairy tale teaches if someone makes a promise they must always keep that promise, and to never judge a book, or frog, by its appearance.

