

# MBCI NASA Center

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

February 2023

## MBCI NASA Teacher Enhancement Center February Activities

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

February 4

NASA Center  
High School Robotics

February 7

NASA Center  
Geology Agates lesson

February 11

NASA Center  
High School Robotics

February 15

Bogue Chitto Elementary School  
Reasons for the Seasons

February 18

NASA Center  
High School Robotics

February 24

Bogue Chitto Elementary School  
Reflection/Refraction

February 25

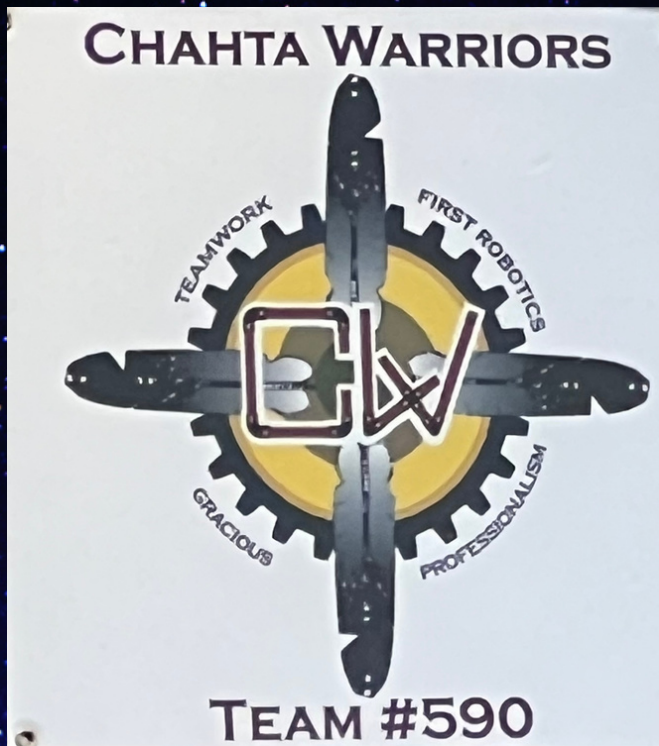
NASA Center  
High School Robotics

February 28

Choctaw Central Middle School  
Reasons for the Seasons

**PISCES**  
CONSTELLATION





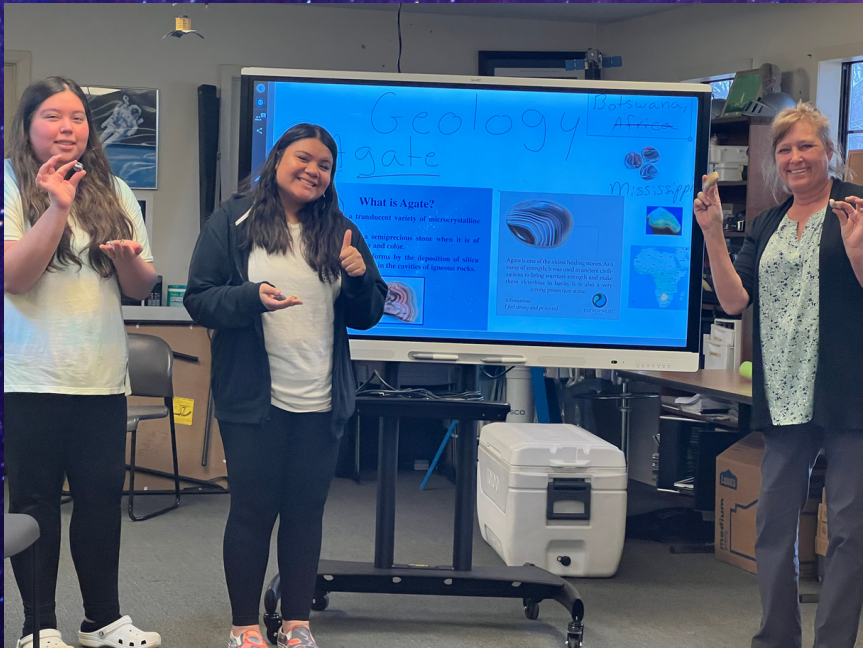
NASA Center  
Team 590 Robotics

The 3rd official meeting involved engineers building a mechanism to allow a claw to move vertically. While the engineers were hard at work, programmers started to work on the electrical part of the robot. The rest of the team completed writing and editing their presentation.



NASA Center  
Geology Agate Lesson

Students in the NASA Center were introduced to agates.

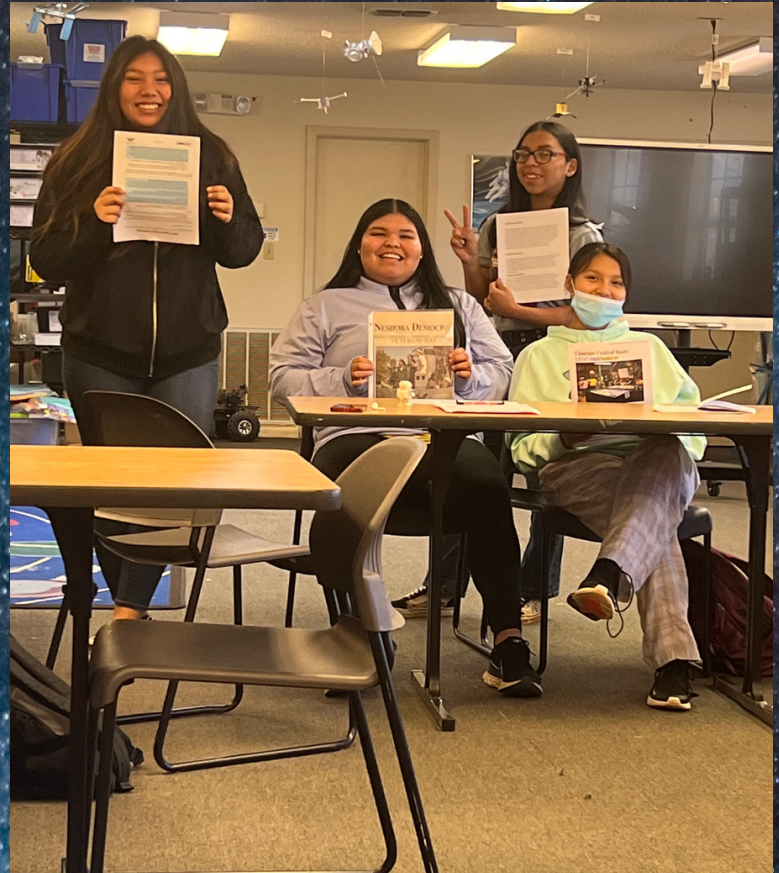






# MBCI NASA CENTER TEAM 590 ROBOTICS

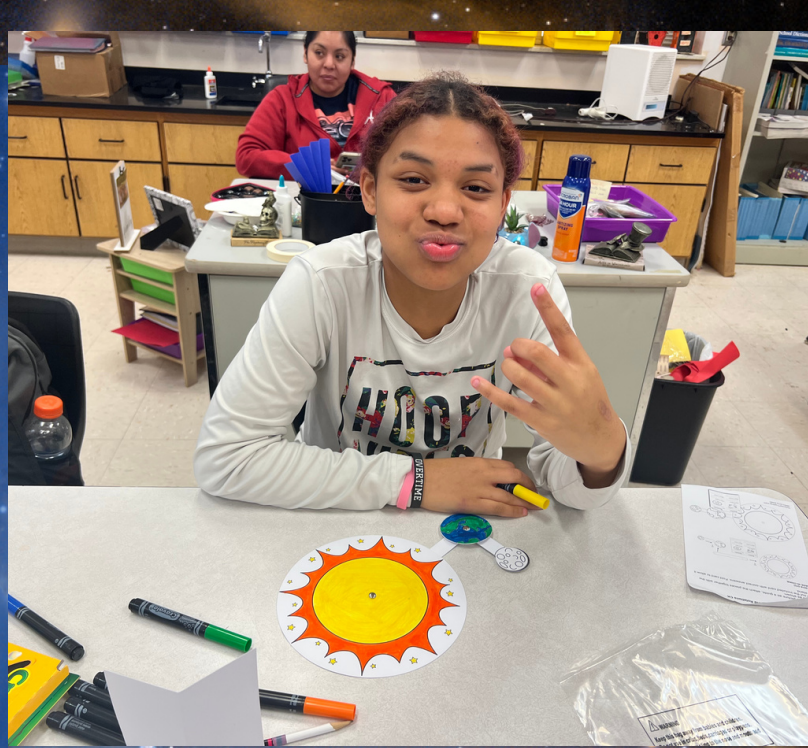
With the 4th meeting of the robotics team in the books. The team started to edit and refine their presentation for the FIRST Impact Award. On the engineering side, students mounted the circuit breaker, power distributor, RoboRio, and the radio. Once the electronics were mounted the programmer started to program the Xbox controller to control the robot.





# Bogue Chitto Elementary School Reasons for the Seasons

The NASA Center staff traveled to Bogue Chitto Elementary School to visit with Mr. Mikell's 7th grade classes to educate them on the reasons for the seasons. Within this lesson, students explored the Earth's rotation, revolution, and why there is a leap year. Students were shown the Earth's rotation and revolution with visual aids demonstrating why each hemisphere has different seasons. Students were given a miniature model to construct.



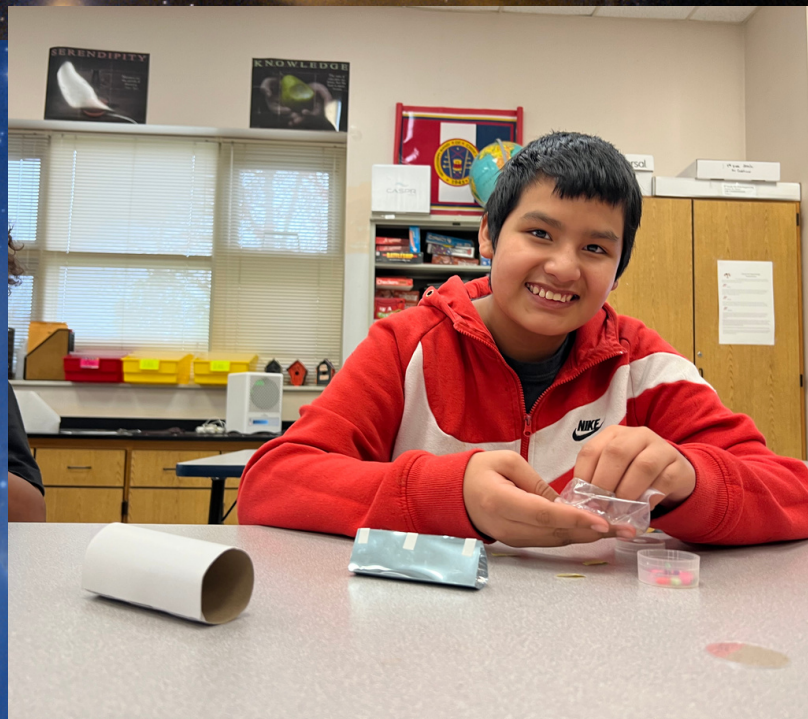
## MBCI NASA CENTER TEAM 590 ROBOTICS

The 5th meeting of the robotic team consisted of the team members test driving the robot. Students who wish to drive the robot can compete with each other in order to earn the opportunity to drive at the FIRST Robotics Competition. After the mini drive session, the engineers started to construct a platform that allows the robot's arm to move vertically.



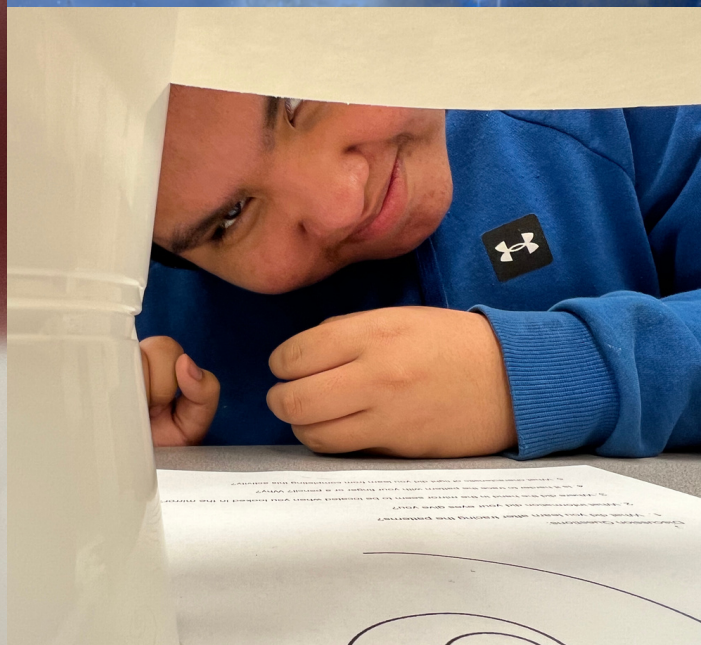
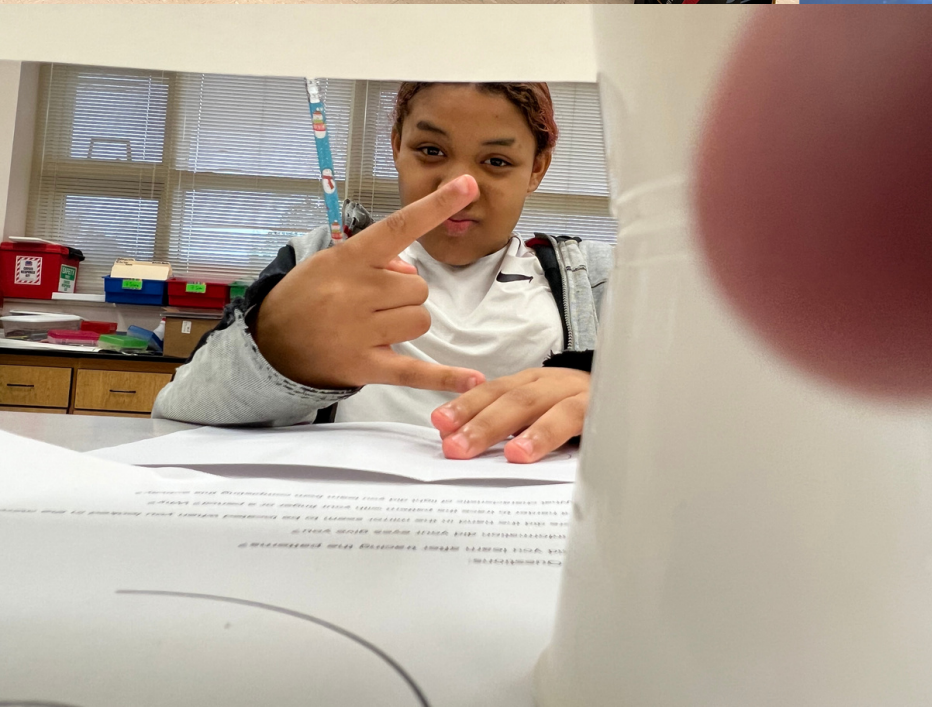
# Bogue Chitto Elementary Schools Reflection / Refraction

NASA Center staff traveled to Mr. Mickell 7th grade class for a lesson in reflection and refraction. In order to help demonstrate reflection, students constructed a kaleidoscope. The kaleidoscope consisted of a tube containing a reflective panel and pieces of colored plastic. The reflection of the colored plastic creates a pattern that is visible through an eyehole.



## MBCI NASA CENTER TEAM 590 ROBOTICS

The 6th meeting for the robotics team included finalizing the FIRST Impact presentation. The student programmers started to learn about how to program the robot for autonomous, a period in the game where the robot functions without a driver controlling the robot. A unique challenge that the engineer has come across is building a system that will allow the robot arms to extend and retract into the robot frame.





# NASA Center Reason for the Season

Although, the NASA Center enjoys traveling to the elementary schools. Occasionally students are brought to the NASA Center. Mrs. Griffin brought her classes to the NASA Center for "The Reasons for The Seasons" lesson.





# NASA LOL

