### MBCINASA Center FICHIK MALATO ALHÍHA!

November 2022

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MBCI N Enhancen	IASA Teacher nent Center	November 1	Bogue Chitto Elementary School Lego Programming
October Activities		November 2	Pearl River Elementary School Lego Programming
		November 2	Tucker Elementary School Lego Programming
NASA Center Staff		November 4	Bogue Chitto Elementary School Clip Birds
Tracey Hartness M Jose Cruz N	NASA Center Coordinator NASA Center Assistant	November 7	Standing Pine Elementary School Lego Programming
		November 7	Tucker Elementary Schools Lego Programming
		November 8	Standing Pine Elementary School Star Finder & Planetarium
		November 10	Standing Pine Elementary School Solar Cars
		November 17	Conehatta Elementary School Lego Programming
		November 28	Pearl River Elementary School Lego Programming



#### BCES LEGO PROGRAMMING

The Nasa Center visited with Mrs. Franklin's LEGO Robotics team, Team #8651 Smash Clan, for an introductory course in LEGO programming. The kids learned the benefits of pseudocoding and how to implement it when attempting a mission. The students were able to programing their own mission and felt comfortable programming their robot.

#### PRES LEGO ROBOTICS

The NASA Center visited with Ms. Seward's Lego Robotics Team, Team # 7745 The Able Gamers Group II, for their first lesson of programming the new LEGO SPIKE robot. The Able Gamers learned the benefits and how to implement pseudo-code. They were successful in learning how to program their robot to drive in a square. Once the team felt comfortable with programming they set off to select various missions to attempt.





## TUCKER LEGO

NASA staff traveled to Tucker to meet with Ms. Taylor's robotics team, Team #57145 Network Robots. As a new coach it was the intention of the staff to relieve some pressure that Network Robots might be facing. Staff ensured that the Lego models were built correctly and offered words of encouragement.

#### BCES CLIPBIRDS LAND

The NASA Center Staff conducted a workshop with 6th grade BCES students. "Clipbirds" is an exciting STEM activity that explores interaction in ecosystems with varying environmental factors. Students are "birds" with varying beak sizes and food amounts available. Students had to collect data in order to compare and contrast to see which "bird" is able to survive and/or reproduce. The birds live through four seasons either thriving population or facing possible extinction.







# SPES LEGO

The NASA Center is committed to helping all LEGO Robotic Coaches and visiting SPES was no different. As a new coach, staff met with Mrs. Armstrong's team, Team #8649 Native Pines. Native Pines had a mixture of rookie and veteran team members. A key task of the day was to ensure the entire team understood each mission and rookie team members be able to program their robot to drive in a square.

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#### TES LEGO PROGRAMMING

With another visit to TES, staff visited with Mrs. Bounds' LEGO team, Team #53726 Tucker T'bots. The T' bots are made up of mostly veterans members. The key task for the T'bot was to understand the missions for this year's game and learn the difference between EV-3 robot and the new SPIKE robot. Several of the team members remember how to program from pervious years. After a refresher on programming the team felt comfortable with programming and starting developing a game plan for this year's challenges.

#### SPES PLANETARIUM

Staff took the night sky to SPES for Mrs. Sanders 5th grade class. Students were involved in a workshop where they engineered their very own star map and learned about some major constellations and Polaris, the north Star.





#### SPES PLANETARIUM

Along with Mrs. Sanders' 5th grade class, we were welcomed by Mrs. McRaney's 3rd grade class. The students had a unique opportunity to explore STARLAB for a Native American mythology and story telling presentation from various North American tribes.

#### SPES Solar Car

The NASA Center visited with Mrs. Sanders' 5th grade class to engineer solar cars. Students engineered their own cars and learned about gear ratios and how they affect velocity.



#### CES LEGO PROGRAMMING

Staff traveled to CES to see Ms. Armstrong's Lego team, Team# 7747 Super Spikes. Super Spikes has a mix of rookies and veterans on the team. Veteran team members were ready and excited to help their rookie team members. Once the team understood all the missions, veterans took their rookies and began

coding.

### PRES

#### LEGO Programming

Traveling to PRES again to assist Ms. Seward with another one of her Lego teams, Team #8650 Project Girl Power. One of the few all girl teams that wanted to participate in LEGO robotics. Before the NASA Center left, the girls learned how to pseudocode, understood each mission, and were very excited with the progress they made. With newly built confidence the girls were eager to tackle challenges in the game.