FISCAL YEAR 2019

INNOVATION IN TEACHING COMPETITION WINNERS

Teacher Name	**Amy Crandall**
School District	**Marietta City Schools**
School	**Marietta Center for Advanced Academics**
Priority Area	Blended & Personalized Learning
Description of Unit	In this unit, fifth grade students learn social studies and computer science standards simultaneously. First, in partners, students research a 19th century immigrant group of their choice. Then, using their research and coding knowledge, partners develop a kiosk with information about the immigrant group that could be displayed at the Ellis Island museum.
Description of School Grant	Marietta Center for Advanced Academics (MCAA) will use the school grant to supplement technology enhancements to its Learning Commons. The school grant will also help fund MCAA student-designed improvements to its already-existing outdoor classrooms.

Teacher Name	**Kathleen Lanman**
School District	**Fayette County Public Schools**
School	**J.C. Booth Middle School**
Priority Area	Applied Learning with a Focus on STEAM Education
Description of Unit	In this integrated, seventh-grade biology unit, students learn about the concepts of active and passive transport in cells. In the first half of the unit, students conduct labs and a series of thought experiments to deeply understand diffusion, homeostasis, and osmosis. In the second half of the unit, students apply their knowledge of active and passive transport to design a solution to the real-world question, "How can we solve the potable water crisis in Puerto Rico?"
Description of School Grant	J.C. Booth Middle School seventh- and eighth-graders will collaborate with Fayette County High School students to plan, design, and build a mobile makerspace. Teachers throughout the district will be able to schedule visits from the mobile makerspace, which has the potential to reach more than 20,000 Fayette County students.

Teacher Name	**Terra McMillan**
School District	**Houston County Schools**
School	**Thomson Middle School**
Priority Area	Applied Learning with a Focus on STEAM Education
Description of Unit	This STEAM unit plan challenges sixth-grade Earth Science students to design and engineer solar panels models for the NASA Orion missions to Mars. Throughout the unit, students learn about how human life would thrive on Mars, as well as how to create a colony on the planet. Then, using the Engineering Design Process, student teams apply their knowledge of solar energy, mathematics, design, and coding to construct a solar panel prototype that tilts and rotates according to the position of the sun.
Description of School Grant	Thomson Middle School will use the school grant to enhance its already-existing STEMulate Learning Program. Specifically, the school will use funds to purchase mini solar panels, windmill kits, aquaponics labs, and laptops for sixth, seventh, and eighth grade students to study the effects of long-term space travel on the human body, as well as how to create a successful colony on Mars.