

## **Funded Grants 2017**

### **Activities to Encourage the use of 21<sup>st</sup> Century Math Skills**

Marilee Ward

Clara Byrd Baker Elementary School

Marcy Cook tiles will allow students to work at their individual skill levels and promote the mathematical process standards of critical thinking, problem solving, communicating and collaboration.

### **Hocus, Pocus, We CAN Focus**

Amy Meister, Amelie Smucker

Rawls Byrd Elementary School

Multi-sensory “ fidget boxes” can improve the ability to regain calm, focus and learn. They include sensory input and regulation for all five senses. Tools will include stress balls, wobble seats, Velcro scented pencils, pressure tools and chewy necklaces.

### **Modular Robotics with Cubelets**

Kristy Haight

Rawls Byrd Elementary School

Cubelets and Legos will challenge student to create robots to perform specific tasks. Students will make predictions, record findings/observations in journals to connect literacy skills with computer science.

### **Differentiated Lesson Kits for Newcomer ELLs**

Shayna Walker

Rawls Byrd Elementary School

Newcomer English language learners need to learn “survival” English as well as “academic English”. 40 kits will pave the way for grade-level achievement recognizing some learners are educated in their first language and others are not but all need differentiated materials based on language proficiency.

### **Dream, Design, Develop: The 3D Solution to Student Engagement**

Erin Elmore, Gia Chambers, Julie Singley

Rawls Byrd Elementary School

Elementary school students have increasing difficulty maintaining focus. They are able to navigate around an iPad by age 3 but have the ability to press the power button when a video is no longer interesting or when they are losing a game. A 3D printer will help spark new interest and compel participation.

### **Read and Ride Classroom**

Bob Keller

James River Elementary School

The classroom will have 6 exercise bikes that students can ride during their structured and independent reading time. The classroom will be adjacent to the library; teachers can schedule small groups to utilize the bikes.

### **LEGO StoryStarters**

Jonathan Nonnemacher

James River Elementary School

24 Lego StoryStarter kits for the library will provide a hands-on, creative way to illustrate students' stories as well as stories they hear in the media center. Who wouldn't love to set a scene with LEGOs, write a story about it and use software to create a finished product?

### **Strengthening Handwriting Through Fine Motor Take Home Kits**

Erin Poulter

Matoaka Elementary School

Fine Motor kits, consisting of engaging manipulatives, including snap beads, Play Doh, craft punches and connecting links along with plastic totes and task cards will afford students the chance to build critical handwriting skills early in the first grade. Take-home nature provides a chance to teachers and parents to work together for student success.

### **Challenge Tiles for Math Practice and Differentiation**

Karen Little

Matoaka Elementary School

Marcy Cook math problem solving challenge tile card focus on number sense and problem solving. Materials can be used individually or with a partner. Their multi-level format offers remediation, practice and enrichment.

### **K-5 Technology/Library Makerspace**

Elizabeth Crispino, Maureen McFarland

Matoaka Elementary School

The computer teacher and librarian will develop learning units in a "makerspace" environment to provide students an opportunity to learn and apply skills in robotics, coding, circuitry, and cardboard engineering to solve problems and create new products.

### **Tapping into Innovative Learning**

Michele M. Potter

Norge Elementary School

Students with autism will use a Touch Board that is connected to a computer and allows a wall or white board to become an interactive learning station providing additional avenues of instruction engaging tactile, auditory and visual stimulus.

### **Manipulatives for Mini-Mathematicians**

R. Evelyn Jessie

Stonehouse Elementary School

Hands-on learning through the use of manipulative clarifies math concepts. Students take ownership of their own box of manipulatives throughout the year and pass it on to upcoming fourth graders the following year.

### **Feed Their Minds**

Kristin Froehlich

Stonehouse Elementary School

Weekly books will be added to Power Packs of food items for families needing food assistance over the week-ends when children do not receive their meals at school.

Age appropriate books will be tracked and updated as students' reading abilities increase throughout the year.

### **What Came First, the Chicken or the Egg?**

Kimberley Hundley

Stonehouse Elementary

Kindergarten students will wear lab coats and become real scientists as they observe, record and communicate the life cycle of a chicken. They will incubate eggs in the classroom, watch them hatch and care for the chickens until they find new homes.

### **Community Based Instruction to Dreamcatchers**

Sarah Tremblay, Sheree Reel, Robin Baker

Stonehouse Elementary School

Special Education students in a self-contained classroom will participate in a therapeutic riding program for 10 weeks to increase gross and fine motor control and strength, communication skills and ability to follow directions.

of science: earth science, biology, chemistry, physics, anatomy, and oceanography.

### **Ordinary People in Extraordinary Times**

Anita Ellis, Rachel Moore

Hornsby Middle School

Students step into the past as investigative reporters to analyze the issues, perspectives and impact of the Civil War, collaboratively producing a newspaper to demonstrate their learning.

### **Design, Create, Collaborate- STEM Exploration with VEX IQ Robotics**

Melissa Chai, Jaclyn Beck

Toano Middle School

Students will be exposed to multiple technologies, challenging them to develop and implement solutions in simulated real-world problems by constructing and implementing robots. They will demonstrate work readiness skills by collaborating with a team, communicating ideas, displaying a positive work ethic, resolving conflicts appropriately and utilizing time management skills.

### **Creating in 3D**

Kristin Cosby

Jamestown High School

Two 3D printers will help students construct three dimensional models that will aid in critical thinking skills, problem solving, creativity and innovation in all areas. **La**

### **Exploracion**

Alisa Smith, Kimberly Holloway

Jamestown High School/Matoaka Elementary School

High School Spanish students work with third grade students to expose them to the Spanish language and culture. High Schools students will prepare, practice and execute Spanish lessons with the use of Rockalingua offering a wide range of Spanish cultural music, educational songs and games. Students will write and illustrate a book that will be professionally published and available in schools and local libraries.

### **Reading and Writing with Robots**

Ashley Hurst, Amanda Morris (Snelling)

Lafayette High School

By using Spheros (app-enabled robots) in the classroom, students will use basic coding skills to innovate, think critically, and problem solve while programming their robots to reflect the characters and conflicts present in *Lord of the Flies*

### **The Virtuality Project**

Monica Schaffler, Amy Wallisch

Lafayette High School

Virtual Reality is a state-of-the-art immersive technology that allows users to visit and explore environments that are otherwise inaccessible. Students will be able to check out VR viewers, allowing them the opportunity for personalized inquiry. Many free VR apps are available.

**Seeds for the Future: A collaborative Public Sculpture  
(Steven C. Constantino Innovative Teaching Grant 2017)**

Molly Peet

Lafayette High School

Students will gain first-hand experience designing and creating a collaborative ceramic sculpture using slab building techniques to build individual contributions to the larger sculpture, They will learn how to apply to be in a public exhibition as part of the Williamsburg Art District contest.