

## PowerUP Jax Fall 2016 Grant Winner

14, Vernita Moore

Jean Ribault Middle School

Subject/Grade: STEM lab 6<sup>th</sup> and 7<sup>th</sup> grade

Project Title: Human Impact on The Environment (specifically our sources of water)

### **Summary of Project:**

Protecting our city is a project that allows students to research the advantages and disadvantages of levee systems. Students also research how they are constructed and use what they have learned to build a model levee for testing purposes. Seventh grade students will complete their research process by focusing on the "Flint Water Crisis", ways to naturally filter contaminated water sources and they will use what they learned to apply to filtering their "contaminated" sources of water in class.

### **How many students will be directly involved? Explain any further impact on other students, teachers, the school as a whole, and/or the community.**

There will be a total of 144 students impacted by the implementation of these projects (6th grade- 96 and 7th grade -48). Due, to the fact students will complete their research via the Internet , teacher provided articles, photos and videos; students will be able to transition this knowledge and skill sets into other classes such as ELA, Reading and Science.

### **How will the project specifically increase student learning? Be sure to explain the project's connections to existing learning standards. Be clear about what new skills, knowledge, and/or dispositions the students will acquire.**

During the course of the year, students are expected to write and form an understanding of information using multiple sources of media. The listed projects will allow students to develop this skill set in order to answer a question and apply their knowledge, learned through research, to the development of a model or testing application. As stated above, students will complete their research via the Internet , teacher provided articles, photos and videos; students will be able to transition this knowledge and skill sets into other classes such as ELA, Reading and Science.

### **What is your plan for evaluating the success of your project? What artifacts (photographs, samples of student work, testimonials, etc...) would you use to demonstrate the effectiveness of the project?**

Each project includes a rubric for grading, student presentations. Pictures and video will also be collected for documentation purposes. Students will also provide reflections on their experiences during the the research and development processes.