



RIVERRESCUE

Friday, March 18, 2016 • 10:30 a.m. - 12:45 p.m.
@ Newsome Park Elementary Science, Technology & Math Magnet

10:30 – 11:00 a.m.

Understanding the Mission

Welcome to the NNPS Engineering Design Challenge. Witness the mission in Newport News Public Schools come alive today. We are committed to offering experiences that ensure all students develop the *college, career and citizen-ready* skills needed to secure successful and bright futures.

Welcome

Tami Byron

STEM Specialist, Newport News Public Schools

Opening Remarks

Ashby Kilgore, Ed.D.

Superintendent, Newport News Public Schools

Challenge Kick-Off

John Quarstein

Local Historian & Author

VA War Museum Foundation: Endview Plantation

11:00 a.m. – 12:30 p.m.

Student Innovators at Work

With a clear understanding of the challenge before them, fourth and fifth grade students will work in teams to think critically, problem solve, and innovate. You are welcome to visit the school tables to watch the action; however, please do not offer any assistance in the challenge. Today's event will demonstrate the capabilities of our smart students representing each of our elementary schools.

12:30 – 12:45 p.m.

Celebrating Success

Join us as we celebrate the hard work of all our students and recognize our winning teams.

Award Ceremony & Closing Remarks

Tami Byron



NNPS ENGINEERING
DESIGN Challenge

NNPS ENGINEERING DESIGN Challenge

Welcome! In Newport News Public Schools, we are committed to ensuring all students learn by using a high quality, rigorous curriculum that prepares learners for life beyond the classroom. Our commitment to fostering *college, career and citizen-ready* skills begins in a developmentally appropriate way with our youngest students.

Today promises to be a fun-filled day of learning. Students will work in teams to devise and carry out a plan based on a provided design challenge. Adding to the excitement, the challenge is not revealed until today!

Each NNPS Engineering Design Challenge is hosted in collaboration with a local partner and is intentionally crafted to support the standards, demonstrate the interrelatedness of subject areas, and expose students to a range of the diverse career opportunities that exist. We are pleased to share that today's community partners are Endview Plantation, a living history attraction in Newport News, and the U.S. Army Corps of Engineers. Today's challenge will encourage students to combine social studies and engineering as they devise a solution to a given problem.



HOME CONNECTION

We encourage you to continue the discussion at home this evening. The following suggested questions could be used to start the conversation.

- What did you learn today?
- What did you contribute to your team's work?
- What was the best part of your design?
- What would you modify to make your design more effective?



RIVER RESCUE

CHALLENGE BACKGROUND

History comes alive at Endview Plantation through tours, exhibits, and special programs. Rich with history, Endview Plantation weathered many historical events, including serving as home to Confederate and Union soldiers during the Civil War. Many structures and technologies used during the Civil War were made possible thanks to the U.S. Army Corps of Engineers. This includes forts, trenches, pontoon bridges, and hot air balloons for surveillance. Today, the U.S. Army Corps of Engineers employs approximately 37,000 civilians and soldiers delivering engineering services to more than 130 countries. Among other important roles, this group is responsible for strengthening our nation's security, protecting and restoring our environment along major waterways, and devising a hurricane and storm damage reduction infrastructure.



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