

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



SHORE *to* STORE

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

Jacob Andrus

STEM Specialist, Newport News Public Schools

Opening Remarks

Ashby Kilgore, Ed.D.

Superintendent, Newport News Public Schools

Challenge Kick-Off

Joe Ruddy

Chief Innovations Officer, Virginia Port Authority

11:00 a.m. – 12:30 p.m.

Student Innovators at Work

With a clear understanding of the challenge before them, second and third 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

Jacob Andrus



**NNPS ENGINEERING
DESIGN Challenge**

NNPS ENGINEERING DESIGN Challenge

Welcome! In Newport News Public Schools, we are committed to ensuring that all students learn using a high quality, rigorous curriculum that prepares learners for life beyond the classroom. Our commitment to developing *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, participants do not learn the challenge they will face until the actual event!

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 partner is The Port of Virginia, a world-class port that connects our region to over two hundred countries around the world bringing us the goods we rely on every day. Today's challenge will encourage students to combine science 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?



CHALLENGE BACKGROUND

Students learn about the six simple machines: wedge, inclined plane, wheel and axle, screw, pulley and lever. These machines are tools that make work easier. How these simple machines impact our lives is easily overlooked. Simple machines are essential for loading and unloading cargo at The Port of Virginia. Last year, The Port processed over 2.5 million containers carried by almost 2,000 ships by way of its multiple terminals. The Port of Virginia, the deepest port on the East Coast, plays an important role in our economy. Cargo moving through its world-class facility is transported to and from markets around the globe, carrying the goods and supplies that manufacturers, corporations, and individual consumers use in their everyday lives. This has an economic impact of \$60 billion dollars in total revenue to the Commonwealth of Virginia. Simple machines make all of this work possible.



Visit us online
and follow us on social media.

www.nnschools.org

