



Coastal **THRILL**

Friday, October 23, 2015 • 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 ensure 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

Larry Giles

Vice President of Engineering, Busch Gardens

Suzy Cheely

Corporate Engineering Director, Busch Gardens

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 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 Busch Gardens, a beautiful theme park that provides fun for the entire family. Today's challenge will encourage students to combine science and engineering as they devise a solution to a given problem.



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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

The Coastal Plain region in Virginia is rich with tourist attractions that draw visitors interested in our beautiful beaches, historical sites, and famed theme parks. Busch Gardens, voted the world's most beautiful theme park, is committed to offering fun for the entire family. The park features world class entertainment and thrilling rides. Have you ever stopped to think about the science behind those death-defying drops and double loops? Force, gravity, potential & kinetic energy, and friction are just a few of the basic science principles in play that provide us with a heart-pounding, adrenaline-filled experience.

