



MIGHTY MOVERS

Friday, December 11, 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 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

Brian Nichols

Chief Academic Officer, Newport News Public Schools

Challenge Kick-Off

Bryant Ward

Executive Vice President of Engineering & Purchasing
Liebherr Mining Equipment Company

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**

NS ENGINEERING DESIGN Challenge

Welcome! In Newport News Public Schools, we are committed to ensuring 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!

LIEBHERR

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 Liebherr Mining Equipment Company of Newport News, a renowned producer of large trucks for the mining industry. 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 three layers of the soil: topsoil, subsoil, and bedrock. Useful and valuable natural resources are found deep in these layers. Mining equipment is necessary for extracting and transporting these buried treasures. Liebherr Mining Equipment Company in Newport News builds world-renowned trucks that are important to the mining industry. It is difficult to imagine the immensity of this monster-sized equipment. The T-284, which is the largest mining truck in the world, has the pulling power of a freight train, is taller than a two-story house, and is capable of hauling 27 school buses in one load! The Liebherr mining trucks engineered in Newport News are built to work with the Liebherr excavators designed in France, demonstrating the importance of collaboration and communication.



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