



# Professional Development Webinars

## The Science and Math Behind Helmet Design

Fall 2018

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# Moderator Bio



## Mike Houston

**T<sup>3</sup> National Instructor  
Riverside High School  
Ellwood City, PA**

Mike is in his fourteenth year of teaching high school mathematics in Ellwood City, PA. While participating in a TI-Navigator™ Fast-Track in 2007, he learned how technology can effectively cultivate students' wide range of learning styles. During this time, Mike has served as a T<sup>3</sup> National Instructor and a contributing author for MathForward™.

# Panelists' Bios



**Linda Antinone**

**T<sup>3</sup> National Instructor**

**Fort Worth, TX**

For 34 years, Linda has taught mathematics and science to a diverse population of students at urban schools in both Texas and Ohio. She is the mathematics department chair at Paschal High School in Fort Worth where she teaches precalculus, AP\* Calculus and AP\* Physics. She holds a bachelor's degree in math and physics education and a masters degree in mathematics from The Ohio State University. Her passions are helping all students excel and making connections between mathematics and science using technology. @LindaAntinone



**Stacy Thibodeaux**

**T<sup>3</sup> Regional Instructor**

**Lafayette, LA**

Stacy holds a Bachelors of Science in Biology and Chemistry and a Masters Degree in Educational Leadership from the University of Louisiana at Lafayette. She has been in the science classroom for 17 years. She currently teaches at Southside High School in Youngsville, LA where she teaches all levels of Biology I. She has also taught Biomedical Science courses in Project Lead the Way program and Chemistry I and II AP\*. She uses TI Technology to assist her teaching, data collection, and modeling math concepts linking them to science content. @StacyThib

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# Agenda

- Welcome & introductions
- What is a concussion?
- Data on concussions
- Current NGSS Standards
- Helmet design

## Expected Outcomes:

- Investigating what materials reduce the impact of force on an object
- Analyzing data using best-fit line, modeling and area under a curve
- Practices, core ideas and crosscutting concepts contained in the NGSS Three-Dimensional Learning Model



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