World of Waves (Grades 4, 6-8)
Thomas Edison Middle School, Meriden
May 24, 2019 8:30am – 3:00pm
Register: https://www.eventbrite.com/e/world-of-waves-grades-46-8-registration-60427291656

Come join us as we build a deep, working understanding of the physics of waves and their importance in our world. Meet STEM role models ranging from Navy officers to robotics engineers & rock musicians that apply the physics of waves in their work. JASON's newest curriculum, World of Waves, can be used to support grades 4, middle school and high school next generation science standards. This workshop will be geared particularly for middle school and grade 4 working towards the following:

Disciplinary Core Ideas:
- PS4A Wave Properties
- PS4B Electromagnetic Radiation

Science & Engineering Practices:
- Developing & Using Models
- Using Mathematics and Computational Thinking
- Constructing Explanations and Designing Solutions
- Obtaining, Evaluating and Communicating Information

Crosscutting Concepts:
- Patterns
- Structure and Function
- Cause and Effect

* BONUS - Participants will be invited to receive a BOSEBuild Speaker Cube Kit and/or a BOSEBuild Headphone kit of their own to pilot selected activities with students to explore:
Climate (Grades 6-8)
Thomas Edison Middle School, Meriden
May 24, 2019 8:30am – 3:00pm
https://www.eventbrite.com/e/climate-grades-6-8-registration-60430772066

Did you know? According to a recent issue of NSTA Express, “NSTA supports the teaching of climate science and recently issued a position statement calling for greater support for science educators in teaching climate science and climate change.” Come join us as we develop a systems model of climate and explore the interactions between humans and earth systems. Meet STEM role models ranging from NOAA climatologists to ocean explorers that are working to understand, monitor, and predict earth’s climate. This workshop will be geared particularly for middle school with a focus on the following:

Disciplinary Core Ideas:

- ESS2C The Roles of Water in Earth’s Surface Processes
- ESS2D Weather and Climate
- ESS3A Natural Resources
- ESS3C Human Impacts of Earth Systems
- ESS3D Global Climate Change
- ETS1A Defining and Delimiting Engineering Problems
- Developing Possible Solutions

Science & Engineering Practices

- Asking Questions and Defining Problems
- Analyzing and Interpreting Data
- Developing & Using Models
- Planning & Carrying Out Investigations
- Using Mathematics and Computational Thinking
- Constructing Explanations and Designing Solutions
- Obtaining, Evaluating and Communicating Information

Crosscutting Concepts

- Patterns
- Cause and Effect
- Scale, Proportion, and Quantity
- Systems & System Models
- Stability & Change
**JASON for Elementary (Grades 3-5) – New offering!**

**Connecticut Science Center, Hartford, CT**

**May 21, 2019 8:30am – 3:00pm**

[https://www.eventbrite.com/e/resources-and-tools-for-an-ngss-classroom-jason-for-elementary-registration-60722464526](https://www.eventbrite.com/e/resources-and-tools-for-an-ngss-classroom-jason-for-elementary-registration-60722464526)

Scientific literacy is important too! For the first time, we are now offering a professional learning experience strictly for elementary educators. This workshop will specifically address strategies and resources for integrating Next Generation Science Standards (NGSS) into the school-day while connecting to reading, writing, and math literacy. We will discuss and address the challenges that face elementary teachers when it comes to including time for science instruction, and offer concrete resources and methods that can be easily incorporated into already existing routines. Participants will further their understanding of what it means to teach and learn in three dimensions. Although strategies can be applied across all areas of science, featured lessons will be drawn from the following collections:

**JASON’s Recycling Activities Collection**

![JASON’s Recycling Activities Collection](image1)

**JASON’s Immersion Learning Series**

![JASON’s Immersion Learning Series](image2)

This session will include time for participants to identify resources specifically applicable to them in their settings and network with a community of peers to applied strategies explored through the day.

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**FREE Online Access for Connecticut is provided through generous support from the CT Department of Economic and Community Development (DECD)**

**JASON Learning Resources Can Help Supplement or Build Your NGSS Units of Instruction:**