SUMMER STEM INSTITUTE

TEACHER-LED & NGSS-ALIGNED PROFESSIONAL DEVELOPMENT TO TRANSFORM YOUR CLASSROOM

ASSESSMENT & STANDARDS-BASED GRADING IN STEM
JULY 1 - 3, 2019
Led by: Mark Schober, Manjula Nair, Kerry Kline and Emily Wheeler

DESIGN, ENGINEERING AND MAKER CULTURES
JULY 22 - 24, 2019
Led by: Michael Katz and Frances Hidalgo

INTRO TO ACTIVE LEARNING IN STEM
JULY 8 - 12, 2019
Led by: Craig Buszka

DATA ANALYSIS AND LINEARIZATION IN PHYSICS
JULY 24 - 26, 2019
Led by: Yiqing Shen

TEACHING BIOLOGY & THE LIVING ENVIRONMENT VIA THE NGSS
JULY 8 - 19, 2019
Led by: Chris Resch and Glen Stuart

ELEMENTARY STEMLAB LEARNING AND LEADERSHIP INSTITUTE
JULY 22 - AUG 2, 2019
Led by: Amy Wish, Jason Sullivan, Diana Loiacono

NGSS AND PHENOMENA-BASED LEARNING
JULY 15 - 17, 2019
Led by: Kara Luce

COMPUTATIONAL THINKING AND CODING IN PHYSICS
JULY 29 - AUG 9, 2019
Led by: Josh Rutberg, Emily Pontius, Eric Alotta

SEEING SCIENCE EVERYWHERE: BEST PRACTICES IN ELEMENTARY (K-5) STEM
JULY 16 - 18, 2019
Led by: Juliette Guarino Berg, Kate Macaulay, Beverly Chang, and Jenny Lee

INTRO TO BIOTECHNOLOGY
JULY 31 - AUG 2, 2019
Led by: Kerry Kline and Chris Resch

NGSS AND UNIT PLANNING: THREE-DIMENSIONAL UNIT PLANNING WITH NGSS
JULY 18-19, 2019
Led by: Kelly Davison

EXPLORING PHYSICS: STRATEGIES FOR TEACHING MECHANICS
AUG. 5 - 16, 2019 (@ THE STORM KING SCHOOL)
Led by: Paul Feffer

LOCATION & CONTACT

Teachers College, Columbia University
525 W. 120th Street, New York, NY

For questions contact Chris Kennedy
chris@stemteachersnyc.org

TO REGISTER VISIT: STEMTEACHERSNYC.ORG/SUMMER2019
STEMteachersNYC cultivates excellence in STEM teaching and promotes deep understanding and success for students through innovative, teacher-led professional development. Our weekend workshops are offered during the school year and multi-week workshop intensives occur in the summer, led by master teachers. We welcome and encourage teachers from across the globe, the US, and the local New York City area!

We are a 501(c)3 non-profit organization and NYC DOE CTLE Vendor #3385

### ABOUT US

**IN OUR WORKSHOPS YOU WILL:**

- Experience the Modeling Cycle in "student mode" and discuss with peers in "teacher mode"
- Improve discourse management skills
- Discuss curriculum and State/District standards alignment
- Gain content knowledge and pedagogical knowledge
- Receive ongoing support within STEMteachersNYC community
- CTLE credit available for NYS Teachers

### IMPROVE SCIENCE EDUCATION THROUGH NEXT GENERATION SCIENCE STANDARDS:

- Asking questions and define problems
- Developing and using models
- Planning and carrying out investigations
- Analyzing and interpreting data
- Using mathematics and computational thinking
- Constructing explanations and designing solutions
- Engaging in argument from evidence
- Obtaining, evaluating, and communicating information

- Patterns
- Cause and effect
- Scale, proportion, and quantity
- System and system models
- Energy and matter
- Structure and function
- Stability and change

FOR TEACHERS, BY TEACHERS, ABOUT TEACHING
AFFILIATED WITH THE AMERICAN MODELING TEACHERS ASSOCIATION

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