



MASSACHUSETTS SCHOOL
ADMINISTRATORS' ASSOCIATION



An MSAA Professional Development Workshop for: Science Teachers, Science Department Heads, Team Leaders, Curriculum Coordinators, and Special Educators

Mastering Grade 8 Life Science for Teachers: Content-based Workshop



Featuring **TEACHERS21** Presenter:
Pauline Allaire-Adams

Tuesday, November 6, 2018
at the MSAA Office, Franklin

Sign-In: 8:00am–8:30am
Workshop: 8:30am–3:00pm

PD Hours: 6
Content Area: Science and
Technology/Engineering

Fees: Member \$215 / Non-Member \$285

MSAA Contact: pd@msaa.net

The 2016 Science and Technology/Engineering (STE) Standards strongly recommend an integrated approach in grades K-8. This workshop will focus on the grade 8 standards in these Core Ideas: *From Molecules to Organism: Structures and Processes, Heredity, and Evolution*. Participants will explore scientific vocabulary associated with each standard and learn ways to introduce these terms to their students using a variety of strategies and activities. Participants will walk away with a deeper understanding of the science content and critical thinking skills associated with the Grade 8 2016 MA STE standards.

Topics of exploration will include:

- Illustrating how the environment and genetics influence the growth of organisms
- Describe how food molecules are broken down and rearranged to support energy release
- Distinguishing between inherited characteristics and ones influenced by the environment
- Develop a model to show the possible effects of structural changes to genes and proteins
- Comparing and contrasting asexual and sexual reproduction
- Illustrate that chromosomes contain genes that determine proteins and traits
- Explain how natural selection can increase some individuals' reproductive success

Pauline Allaire-Adams has been a science educator, science department chair, district-wide curriculum facilitator, program developer and professional development coordinator. She has also served on the MADOE Assessment Development Committee for the Biology MCAS. Pauline's deep knowledge of science and the science curricula at all grade levels is transmitted to teachers through practical, hands-on experiences that can be translated into classroom teaching and learning. Pauline integrates her knowledge of the MA Curriculum Frameworks and MCAS into her workshops and courses to support teachers as they deepen and expand their science knowledge and repertoire of instructional strategies.

[Register online at www.msaa.net](http://www.msaa.net)

LEADERSHIP MATTERS



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