Life Science (LS1): From Molecules to Organisms
Instructor: Pauline Allaire-Adams
Location: William James College

This workshop has been designed to give K-8 teachers who teach science a deeper understanding of the content in the area of From Molecules to Organisms. Participants will explore scientific vocabulary associated with each standard and learn ways to introduce these terms to their students using a variety of resources including technology. The instructor will model effective ways to teach science vocabulary while the participants learn or re-learn the content in these areas. Participants will walk away with a deeper understanding of the science content and critical thinking skills associated with the new 2016 MA STE standards. After completing this workshop, teachers should feel confident about their understanding of the content and better equipped to teach these standards to students.

Topics of exploration include:

- Asking questions about how plants obtain materials to live and grow
- Providing evidence that organisms are made of cells
- Developing a model to show how parts of cells contribute to various cellular functions
- Developing an argument that body systems interact to carry out life functions
- Explaining how animal behaviors and plant structures lead to increased reproductive success
- Illustrating how the environment and genetics influence the growth of organisms
- Describing how food molecules are broken down and rearranged to form new molecules that support growth and energy release

Intended Audience: K–8 Elementary Teachers, Science Teachers, Departments Heads, STE Curriculum Leaders

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