This workshop has been designed to give K-8 teachers who teach science a deeper understanding of the content in the area of Force and Motion. 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:

- The role of the mass of an object must be qualitatively accounted for in any change of motion due to the application of a force.
- Forces that act at a distance involve fields that can be mapped by their relative strength and effect on an object.
- The effect of unbalanced forces on an object results in a change of motion.
- Some forces act through contact; some forces act even when the objects are not in contact.
- The gravitational force of Earth acting on an object near Earth’s surface pulls that object toward the planet’s center.

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