

**ISI 2<sup>nd</sup> grade:** 2<sup>nd</sup> grade teachers will receive four hands-on, inquiry-centered modules to implement in this grade level. The ISI rotation schedule will allow approximately ten weeks for completion of each module. The four modules are: *FOSS Insects and Plants*, *FOSS Solids and Liquids*, *FOSS Air and Weather* and *PictureSTEM Designing a Toy Box Organizer*. The *PictureSTEM* module will be shipped in conjunction with the life science module, *FOSS Insects and Plants*, because within this module there is time where the students are waiting for plants to grow or for animals to go through the next stage in their life cycle and the *PictureSTEM* module can be utilized to fill in these gaps.

*FOSS Insects and Plants* provides students with life science core ideas dealing with the structure and function of living things, growth and development of plants and animals, interactions of organisms with their environment and biodiversity of organisms on land and in water. In this module there are five investigations with a total of 19 parts. Students will study mealworms, *Brassica* plants and the painted lady butterfly. In *FOSS Solids and Liquids* students explore a variety of solid objects, learn about their properties and how they are different from liquids. Students explore liquids in a variety of settings, become familiar with their properties and investigate how solids and liquids interact with water. There are five investigations with a total of 19 parts in this material. In *FOSS Air and Weather* students explore the natural world by using simple instruments and calendars to observe and monitor change. Across four investigations with a total of 17 parts students build on the concept of weather and how the Sun warms the Earth's surface. In *Designing a Toy Box Organizer*, students investigate standard units of measure and sort objects according to their physical properties before applying them to design a toy box organizer. Each lesson is accompanied by a read-aloud book which reinforces the science and engineering content as well as the literacy connections.