

ISI First Grade: First grade teachers will receive four hands-on, inquiry-centered modules to implement in this grade level. The ISI rotation schedule will allow close to ten weeks to complete each module. The four modules are: *STEM in Action: Sound Bite and STEM in Action Shadow Box Theater* (combined into one module), *FOSS Pebbles, Sand and Silt*, *FOSS Plants and Animals*, and *PictureSTEM Designing Hamster Habitats*. The *STEM in Action* modules will be taught together to meet the physical science standards in first grade. The *PictureSTEM Designing Hamster Habitats* will be sent with the life sciences module, *FOSS Plants and Animals*, because within this module there is time where the students are waiting for plants to and the *PictureSTEM* module can be utilized to fill in these gaps in time.

In *STEM in Action Sound Bite* students learn about sound waves and vibration and apply this knowledge to the development of a working prototype phone to help friends talk over a distance. In *STEM in Action Shadow Box Theater* students build knowledge about light and shadows and apply that knowledge by planning, testing and redesigning scenery for a shadow theater. In *FOSS Pebbles, Sand and Silt* students learn about earth materials through four investigations that have 17 individual parts. Students learn about the composition of different earth materials such as soil and rock and learn where natural resources are present in their local community. In *FOSS Plants and Animals* students study the growth and development of a variety of plants and the interactions of local animals, such as isopods, with plants. Students also learn about how animals grow and develop and how their behavior contributes to their survival. There are four investigations with 14 component parts.

In *Designing Hamster Habitats* students will learn about the basic needs of animals and they will design a habitat for a hamster. There are six lessons in this module and each begins with a read-aloud story designed to align to the content of the lesson and reinforce literacy skills. Depending on when you receive this module during the year, the literacy skills may be appropriate or they may be a review for your students.