

ISI Kindergarten: Kindergarten teachers will receive three hands-on, inquiry-centered modules to implement in this grade level in addition to a few lessons from the National Geographic *Weather and Seasons* module. The ISI rotation schedule will allow close to 10 weeks to complete each module. The three modules are *STC Exploring Force and Motion*, *STC Plants and Animals* and *PictureSTEM: Designing Paper Baskets*.

The two STC (Science and Technology for Children), published by Carolina, modules are organized in a similar way with eight lessons in total. Lesson one is a pre-assessment and lesson eight is a post-assessment. In *STC Exploring Force and Motion* students investigate different types of motion through pushes and pulls and how forces can change the direction of motion. In *STC Exploring Plants and Animals* they explore the structures, needs and life cycles of plants and animals. They set up habitats for goldfish (we switched from zebrafish because of the expense) and milkweed bugs and explore human impact on the environment.

In *PictureSTEM: Designing Paper Baskets* students are introduced to the engineering design process and are faced with the challenge of designing a paper basket to hold rocks they have collected. 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. *The Designing Paper Baskets* module will also include materials and Teacher Guides for all the lessons in section 3 of *Weather and Seasons*, published by National Geographic. These lessons deal with determining ways to measure the effect of the Sun on warming the Earth's surface. These lessons can then be extended to address the earth science standard: K.ESS.1 Make observations to determine the effect of sunlight on Earth's surface and use tools and materials to design and build a structure to reduce the warming effect on Earth's surface.