# BSCS SCIENCE LEARNING 5E Instructional Model

**Engage.** The engage activity should make connections between past and present learning experiences, expose prior conceptions, and organize students' thinking toward the learning outcomes of activating in the instructional sequence

**Explore.** Experiences in the explore phase provide students with a common base of activities within which students wrestle with their current conceptions about a natural phenomenon through the science and engineering practices in the performance expectation. Learners may complete activities that help them use prior knowledge to generate new ideas, explore questions, design and conduct investigations, analyze and interpret data, and/or develop and use models.

**Explain.** During the explain phase students are provided opportunities to demonstrate their conceptual understandings and use of science and engineering practices. In this phase teachers or instructional materials employ sense-making strategies and introduce academic language. An explanation from the teacher or other resources may guide learners toward a deeper understanding, which is a critical part of this phase.

**Elaborate.** Teachers or instructional materials challenge and extend students' conceptual understanding and use of science and engineering practices during the elaborate phase. Through new experiences, the students develop deeper or broader understanding by applying their understanding and practice in a new context.

**Evaluate.** Experiences in the evaluate phase encourage students to assess their conceptual understanding and use of the practices. The experiences allow teachers to evaluate student progress toward achieving the performance expectation(s).