

# SCIENCE INSTRUCTIONAL FRAMEWORK

The 5 E Learning Cycle is a tool designed for planning and delivering science instruction in Richland One. A team under the direction of Roger Bybee, Biological Science Curriculum Study (BSCS), developed the learning cycle called the "Five Es". The model was adapted for instructional delivery in Richland One.

The steps of the cycle are:

**Engage:** In this section, the teacher captures the students' attention, stimulates their thinking and helps them access prior knowledge and lay the foundation for current learning.

**Explore:** In this section, students are given time to think, plan and investigate science phenomena.

**Explain:** In this section, students are now involved in an analysis of their exploration and collected data. Their understanding is clarified and modified because of reflective activities.

**Extend:** In this section, students are given the opportunity to expand and solidify their understanding of the concept and/or apply it to a real world situation

**Evaluate:** In this section, the teacher wraps-up and provides closure of the day's instruction. Explanation can be formal or informal.

