

TABLE 1: Intersection of 5E Learning Cycle and 5R Instructional Model.

5R	5E	Purpose
Replace	Explore Explain	Use student's background and experiences to present ways of thinking about and using language in the science classroom. Example: use "collision" to replace "coming together." Replace notion that "fault" is a mistake to geological meaning related to geological boundaries.
Reveal	Explore Explain	Introduce students to new concepts and language within the context of the lesson. Example: Convergent boundary, divergent boundary
Repeat	Explore	Create multiple opportunities for students to encounter and express meaning related to the lesson using slight variations. Example: Repeated opportunities to revisit "boundaries" and their variations in Cycles 1, 2, and 3 of the lesson.
Reposition	Explore Evaluate	Provide opportunities for students to use a full range of communication options to create their own understandings of the concepts presented in the lesson. Example: Create and present their own PowerPoint slides on their understandings of plate tectonics.
Reload	Evaluate	Opportunities beyond the lesson to revisit vocabulary introduced during the lesson. Interactive strategy using terms that emerged during the lesson asking students to look at connections. Example: Words from the word wall are systematically used the next day.