EMMA CASTO, Elementary (K-6)/Science (5-9) Pre-Service Teacher, Glenville State University, Glenville, WV, 26351 & ASHLEY N. KOOKEN, Department of Science & Mathematics, Glenville State University, Glenville, WV, 26351. Focusing on Student Thinking to Support Student Learning of the Movement of Matter and Energy Through Photosynthesis using the 5-E Model of Science Instruction

This presentation will explore ways to plan and design science instruction that will emphasize students' thinking about the movement of matter and energy through photosynthesis. Participants will be able to examine data from student thinking interviews conducted with two 5^{th}-7^{th} grade students. During the presentation, we will discuss how the productive elements of students' thinking can be leveraged throughout the 5-E Learning Cycle Unit to support students' meaningful science learning. Attendees will also have an opportunity to consider how they might assess students' learning of this life science disciplinary core idea. Participants will leave with a thoughtful conception of the 5-E model of science instruction and the benefits it has on science teaching and learning.