Day One

8:00  **Introductions and Goals**
RSTP Participants will:
1. Engage in an exploration of environmental science inquiry to deepen knowledge of Next Generation Science Standards (NGSS) content and process
2. Examine content-area literacy skills and instructional strategies (reading, vocabulary, writing) embedded in environmental science work
3. Establish connections between NGSS, science content, content-area literacy skills and strategies, and the CCSS-ELA RST and WHST standards

8:30  **Survey of Participant Knowledge:** Gauge initial understanding of science content and processes, content-area literacy, and professional learning communities

9:00  **Learning Progressions for Carbon Cycle and Forests:** Complete self-assessment and review and discuss levels of student engagement in studying forests as carbon sinks

10:00  **Break**

10:15  **Reading and Discussion:** “The Next Generation Science Standards and the Earth and Space Sciences” by M. E. Wysession

11:15  **Carbon Storage Activity 1:** Design a field investigation to assess carbon storage potential for Douglas fir trees; design should be appropriate to level of learning progression you teach in your school.

12:15  **Future Workshop Dates and Lunch**

12:45  **Common Core Connections: Writing.** Use writing to learn strategies to compose scientific texts and deepen conceptual understanding

1:15  **Carbon Storage Activity 2:** Make field measurements or formulate plans for future investigation of trees to estimate carbon storage potential. *Field trip to a stand of trees*

3:15  **Return to Classroom**

3:45  **Common Core Connections: Reading.** Use analysis and interpretation skills to comprehend scientific texts

4:30  **Conclude**
Rural Science Teaching Project:
Role of Forests in Earth Energy Dynamics

Day Two

8:00 Examine the Structure and Content of the NGSS and CCSS-ELA: Consider content and connections between these sets of standards and how they relate to classroom science teaching and learning

9:00 Connecting NGSS and CCSS-ELA to the Carbon Storage Activities. Examine ways that specific elements of the NGSS and CCSS-ELA played out in yesterday’s experiences

10:00 Break

10:15 Considering a Sample Lesson: Explore connections to NGSS and ways to integrate content-area literacy (CCSS-ELA)

11:30 Concluding Discussion: Loose ends and exit survey

12:00 Adjourn