Agenda for Phase 2 of Computer Science in Science

Phase 2: Blended Summer Study

	Time	Activity
Day 1	8:00 – 8:30	Registration and Breakfast
	8:30 – 4:00	Welcome/Introductions/Logistics/Agenda Review Phase 1; Preview Phases 2 & 3 Module 1 – Introduction to Computer Modeling and Simulation Lessons 1 – 6: Complex Adaptive Systems & model build sequence Teacher practice: guiding model specification Teacher practice: guiding the creation of models Teacher Lesson Work Time Debrief and online reflections Wrap-up
Day 2	8:00 – 8:30	Registration and Breakfast
	8:30 – 4:00	Welcome and Daily Overview Computational Science Cycle Use-Modify-Create trajectory Scientific practices with computer models Pedagogy and Best practices from Project GUTS Teacher Practice: guiding the observation of computer models Teacher Practice: guiding the development of experimental designs Teacher Practice: guiding the use models to conduct experiments Debrief and online reflections Wrap-up
Day 3	8:00 – 8:30	Registration and Breakfast
	8:30 – 4:00	Welcome and Daily Overview Groupings by discipline: Earth Science, Life Science, Physical Science Modules 2, 3, and 4 in small groups Teacher Lessons Activity and base models Teacher Practice: guiding decoding of abstractions Teacher Practice: guiding the modification of models Teacher Practice: guiding the development of experimental designs Teacher Practice: guiding the use of models to conduct experiments Teacher Practice: customizing models to reflect local phenomena Debrief and online reflection Wrap-up; Final reflections and Evaluation