ARD Scope and Sequence – Virtual

Day	Estimated Time	Discussion Items	Activity and Deliverables **Check-Off Item*
Orientation	TBA One Week before CASE Institute	General Session: ☐ Host, Lead Teacher, and participant introductions ☐ Google Classroom ☐ Scope and Sequence - logistics ☐ MyCASE curriculum access ☐ PD Materials – Kit and local supplies	• *Research Methods for Science*, Chapter 1, pages 1-15* • Unit 1 Review • Activity 1.1.3 The Problem-Solving Process* • Activity 1.2.1 Strengths Finder • Activity 1.2.2 Developing Strengths*
Day 1	8:30 – 9:00 CT Asynchronous	• Follow up for questions	
	9:00 – 11:00 CT Synchronous	• Project Management • Lesson 2.1 Defining the Problem • Problem 2.1.1 Living in a Global Society	• Activity 1.2.3 Decision Making*
	11:00 – 1:00 CT Asynchronous	• Lunch	• Problem 2.1.1 Living in a Global Society*
	1:00 – 3:00 CT Synchronous	• Activity 2.1.2 Brainstorming • Activity 2.1.3 Recognizing Constraints	• Problem 2.1.1 Living in a Global Society*
	3:00 – 3:30 CT Asynchronous	☐ Readings: *Research Methods for Science*, Chapter 2, pages 18-31*	
Day 2	8:30 – 9:00 CT Asynchronous	• Follow up for questions	
	9:00 – 11:00 CT Synchronous	• Ag Ed Research Presentation #1 • Lesson 2.2 Proposing Solutions • Activity 2.2.1 Overcoming Obstacles	• Project 2.1.4 The Problem Statement*
	11:00 – 1:00 CT Asynchronous	• Lunch	• Activity 2.2.2 A Flury of Solutions*
	1:00 – 3:00 CT Synchronous	• Project 2.2.3 Feasibility Studies • Activity 2.2.5 Casting a New for Information	• Project 2.2.4 Solution Proposal*
	3:00 – 3:30 CT Asynchronous	☐ Readings: *Research Methods for Science*, Chapter 2, pages 31-48*	

Day	Estimated Time	Discussion Items	Activity and Deliverables **Check-Off Item*
Day 3	8:30 – 9:00 CT Asynchronous	Follow up for questions	
	9:00 – 11:00 CT Synchronous	• Ag Ed Research Presentation #2 • Lesson 3.1 Planning Ahead • Project 3.1.2 Resources • Activity 3.1.3 Literature Review • Lesson 3.2 Data Collection	• Activity 3.1.1 Step-by-Step
	11:00 – 1:00 CT Asynchronous	• Lunch	• Activity 3.2.1 Types of Data*
	1:00 – 3:00 CT Synchronous	• Project 3.2.3 Monitoring Progress • Project 3.2.4 Experimentation Time • Activity 4.1.1 Statistics Tutorial	• Project 3.2.2 Determining Data to Collect*
	3:00 – 3:30 CT Asynchronous	☐ Readings: *Research Methods for Science*, Chapter 3, pages 51-74, Review Chapter 4* ☐ Activity 4.1.1 Statistics Tutorial*	
Day 4	8:30 – 9:00 CT Asynchronous	Follow up for questions	
	9:00 – 11:00 CT Synchronous	• Ag Ed Research Presentation #3 • Lesson 4.1 Results and Conclusions • R-values, P-values	• Activity 4.1.1 Statistics Tutorial* • Activity 4.1.2 Charting a Conclusion
	11:00 – 1:00 CT Asynchronous	• Lunch	• Activity 4.1.2 Charting a Conclusion
	1:00 – 3:00 CT Synchronous	• Project 4.1.5 Pondering Reflections	• Project 4.1.3 Analyzing Data – Sample data* • Project 4.1.4 Forming Conclusions – Sample data
	3:00 – 3:30 CT Asynchronous	☐ Readings: *Research Methods for Science*, Chapter 5, pages 151-178	
Day 5	8:30 – 9:00 CT Asynchronous	Follow up for questions	
	9:00 – 11:00 CT Synchronous	• Ag Ed Research Presentation #4 • Lesson 5.1 Communicating Results • Activity 5.1.1 Targeting an Audience • Project 5.1.2 Putting the Pieces Together	• Project 5.1.3 Another Avenue – Evaluation Rubrics*
	11:00 – 1:00 CT Asynchronous	• Lunch	• Complete *Research Poster Evaluation Rubric, Research Presentation Evaluation Rubrics**
	1:00 – 3:00 CT Synchronous	• Lesson 5.2 Going Forward • Problem 5.2.1 Making a Difference • Project 5.2.3 Preparing a Portfolio	• Project 5.2.2 Self Evaluation