Principles of Agricultural Science – Animal Scope and Sequence

Virtual Prior to CI

Day	Time	Discussion Items	Activity and Deliverables *Check-Off Item
Orientation	Virtual (Pre CI)	• General Session • Introduction of Host • Introduction of Lead Teachers • CASE Institute Expectations	• CASE Curriculum Access (MyCASE) • Google Classroom Access • ASA Print Binder
Pre-CI	Complete prior to CI	• Lesson 1.1 Animal Planet • Lesson 1.2 Taming and Naming Animals • Lesson 2.1 Animal Rights or Wrongs	• Complete ASA Pre-Work Scavenger Hunt Worksheet*

In-Person

Day	Time	Discussion Items	Activity and Deliverables *Check-Off Item
Day 1 (In Person)	10:00 – 12:00	• Welcome/Logistics • AOE: MyCASE Navigation • Lesson 2.2 Manipulating Manners	• Activity 2.2.1 Response to Environment* • Activity 2.2.2 Risk and Reward • Activity 2.2.3 Acting Like an Animal
	12:00 – 12:45	Lunch and Host Logistics	
	12:45 – 5:00	• Lesson 2.3 Home Sweet Home • Lesson 3.1 Units of Life	• Activity 2.3.2 Biosecurity: Managing Risk • Activity 2.3.3 Scaled Down • Project 2.3.4 What Makes a Home? * • Activity 3.1.3 Cellular Respiration • Activity 3.1.4 Moving Molecules • Activity 3.1.5 Just Passing Through
	Homework:	Pre-read Teacher Notes for following day (Lessons 3.2- 4.1)	

Day	Time	Discussion Items	Activity and Deliverables **Check-Off Item*
Day 2 (In Person)	8:00 – 12:00	• AOE Concepts and Performance Objectives • Lesson 3.2 Putting the Puzzle Together • Lesson 3.3 Breathing, Beating, and Body Control	• Activity 3.2.2 Just Winging It • Activity 3.2.3 Inside Investigation* • Activity 4.2.3 Feed Analysis • Activity 3.3.1 Show What I know
	12:00 – 1:00	Lunch	
	1:00 – 5:00	• Lesson 3.2 Putting the Puzzle Together • Lesson 4.1 Digestion Junction	• Activity 3.3.2 Take a Deep Breath* • Project 3.3.3 Cruising with a Blood Cell • Activity 3.3.4 Raising the Beat • Project 3.3.5 Mapping Reactions • Activity 4.1.3 My Stomach's Bigger! • Project 4.1.4 Digestion Murals
	Homework:	Pre-read Teacher Notes for following day (Lessons 4.2- 5.2)	
Day 3 (In Person)	8:00 – 12:00	• AOE Teacher Notes • Lesson 4.2 Putting the Puzzle Together • Lesson 4.3 Nutritional Disorders • Lesson 4.4 What's for Dinner?	• Activity 4.2.3 Feed Analysis (continued) • Activity 4.2.4 Energy in Feed* • Activity 4.2.5 Individual Requirements • Activity 4.2.6 It's All on the Lab • Activity 4.4.1 Rational Rules of Thumb • Activity 4.4.2 Pearson's Square Meal
	12:00 – 1:00	Lunch	
	1:00 – 5:00	• Lesson 5.1 Where Do Calves Come From? • Lesson 5.2 The Pathway to Production	• Activity 4.4.3 Snack Time • Activity 4.4.4 A Balanced Diet • Activity 5.1.3 Show Me the Part • Activity 5.1.4 Find That Part* • Activity 5.2.1 Hormones • Activity 5.2.3 Evaluating Viability
	Homework:	Pre-read Teacher Notes for following day (Lessons 6.1-7.1)	
Day 4 (In Person)	8:00 – 12:00	• AOE APP Modalities • Lesson 6.1 A New Pair of Genes • Lesson 6.2 Predicting Animal Inheritance	• Problem 5.2.5 Synchronizing Estrus for Profit* • Activity 6.1.3 Drosophila Genetics Simulation • Activity 6.1.4 Odd Couples • Activity 6.2.1 Black + Black = Red • Activity 6.2.2 Playing the Average • Activity 6.2.3 Predicting the Future
	12:00 – 1:00	Lunch	
	1:00 – 5:00	• Lesson 7.1 Diseased	• Activity 6.2.4 The Pedigree Detective • Activity 7.1.2 Rounds, Rods, and Spirals • Activity 7.1.3 Who Was Infected First? * • Project 7.1.4 Diagnosing Diseases • Activity 7.1.5 Mystery Disease Activity

Day	Time	Discussion Items	Activity and Deliverables **Check-Off Item*
	Homework:	Pre-read Teacher Notes for the following day (Lessons 7.2-7.3)	
Day 5 (In Person)	8:00 – 12:00	• AOE Material • Lesson 7.2 Bugged! • Lesson 7.3 Pathogens Prevented • Preview Webinar Topic (*Lesson 8.1 The Products of Our Toil and 8.2 In Search of the Ideal Animal*) • Overview of Unit 8 Animal Products, Selection, and Marketing	• Activity 7.2.2 Eggs Afloat* • Activity 7.2.3 De-Parasiting Animals • Activity 7.3.1 Give Me One More Shot • End of CI Survey • ASA Certification

Virtual Webinar (Optional – Open for All ASA Certified Teachers)

Day	Time	Webinar Topic
(Virtual)	On-Demand	**The Products of Our Toil** • Gain an insight into teaching *ASA Lesson 8.1 The Products of Our Toil.* Students study consumer products from animals, the methods used to ensure consistent products, and how processing improves lower quality goods and adds value. Students work in teams to teach the class about a product and will use sensory evaluation tests to detect differences in samples of products. (https://www.youtube.com/watch?v=Fvdsddme7Fs)
(Virtual)	On-Demand	**In Search of the Ideal Animal** • Take a deep dive into *ASA Lesson 8.2 In Search of the Ideal Animal*. In this lesson, students will make decisions based on given priorities and criteria and analyze objects as they compare the ideal criteria. They will study the ideal conformation of an animal and write a children's storybook to use as a guide in selecting animals. Finally, they will solve a problem using performance data to select a herd sire. (https://www.youtube.com/watch?v=YVdEpgG1JSc)