

Principles of Agricultural Science – Plant Scope and Sequence – Virtual

Day	Time	Discussion Items	Required for Certification**
Orientation 1 Week Before	TBA 1 Week before CI	General Session: <ul style="list-style-type: none"> <input type="checkbox"/> Host, Lead Teacher, and Participant Introductions <input type="checkbox"/> Google Classroom <input type="checkbox"/> Participant Documents <input type="checkbox"/> Scope and Sequence - Logistics <input type="checkbox"/> MyCASE Curriculum Access <input type="checkbox"/> Materials Lists and Inventories <input type="checkbox"/> Opening & Day 1 Participant Preparation 	<ul style="list-style-type: none"> • Activity 1.1.2 Agriscience Notebooks
Day 1	9:00 – 11:00 Synchronous	<ul style="list-style-type: none"> • AoE: CASE Navigation: Introduction • Lesson 1.1 A World Without Enough Plants • Project 1.1.4 Growing a Business • Lesson 2.1 Understanding Soil Properties 	<ul style="list-style-type: none"> • Activity 2.1.1 Testing the Feel for Soil**
	11:00 – 1:00 Asynchronous	Lunch <ul style="list-style-type: none"> • Graphical Analysis Installation and Go Direct Practice • Prep samples for 2.1.5 	
	1:00 – 3:00 Synchronous	<ul style="list-style-type: none"> • Activity 2.1.6 Water Colors • Project 2.1.7 Predicting Soil Characteristics 	<ul style="list-style-type: none"> • Activity 2.1.5 Organic Matter's Influence**
	3:00-4:00 Asynchronous	<ul style="list-style-type: none"> <input type="checkbox"/> 10-minute break <input type="checkbox"/> Day 2 Participant Preparation 	
Day 2	9:00 – 11:00 Synchronous	<ul style="list-style-type: none"> • AoE: Concepts & Performance Objectives • Lesson 2.2 Soil Chemistry • Activity 2.2.3 Salty Soil 	<ul style="list-style-type: none"> • Activity 2.2.1 What is the pH Problem?
	11:00 – 1:00 Asynchronous	Lunch <ul style="list-style-type: none"> • Go Direct temperature and CO₂ gas sensor practice 	
	1:00 – 3:00 Synchronous	<ul style="list-style-type: none"> • Lesson 3.1 Mixing Media • Activity 3.1.1 Sorting out Potting Soil • Lesson 3.2 Hydroponics • Project 3.2.3 If You Build It, They will Grow 	<ul style="list-style-type: none"> • Activity 2.2.2 Correction of a pH Problem** • Activity 6.3.1 Plant Pigments**

Day	Time	Discussion Items	Required for Certification**
	3:00-4:00 Asynchronous	<input type="checkbox"/> 10-minute break <input type="checkbox"/> Day 3 Participant Preparation	
Day 3	9:00 – 11:00 Synchronous	<ul style="list-style-type: none"> • AoE: Teacher Notes • Lesson 4.1 Cells: Life's Smallest Units • Activity 4.1.2 Examining Cell Structure • Activity 4.1.3 Bound Together 	• Activity 4.1.4 Cellular Respiration**
	11:00 – 1:00 Asynchronous	Lunch <ul style="list-style-type: none"> • Go Direct gas pressure sensor practice 	
	1:00 – 3:00 Synchronous	<ul style="list-style-type: none"> • Lesson 4.2 The Radicle Root • Activity 4.2.3 Root Cell Differentiation 	• Activity 4.2.4 Just Passing Through**
	3:00-4:00 Asynchronous	<input type="checkbox"/> 10-minute break <input type="checkbox"/> Day 4 Participant Preparation	
Day 4	9:00 – 11:00 Synchronous	<ul style="list-style-type: none"> • Lesson 4.3 Stems, Stalks, and Trunks • Ward's Digital Slides: Helianthus and Zea Stems • Activity 4.3.2 Dependable Meristems 	• Activity 4.3.1 Examining Stems**
	11:00 – 1:00 Asynchronous	Lunch <ul style="list-style-type: none"> • Complete morning APPs • Prep for afternoon APPs 	
	1:00 – 3:00 Synchronous	<ul style="list-style-type: none"> • Project 4.3.3 The Life of a Tree • Lesson 4.4 Leave it to Leaves • Project 4.4.1 Lewis and Clark Flora Journal 	• Activity 4.4.2 Sugar Factory**
	3:00-4:00 Asynchronous	<input type="checkbox"/> 10-minute break <input type="checkbox"/> Day 5 Participant Preparation	
Day 5	9:00 – 11:00 Synchronous	<ul style="list-style-type: none"> • Lesson 4.5 Flower Power • Project 4.5.4 Flowers to Fruits (Anchor Assessment) • Lesson 5.1 Sorting Out Plants • Activity 5.1.2 Taxonomic Classification 	• Activity 4.5.2 Flower Concept Map
	11:00 – 1:00 Asynchronous	Lunch <ul style="list-style-type: none"> • Rapitest Soil Test Kit Review 	
	1:00 – 3:00 Synchronous	<ul style="list-style-type: none"> • Lesson 6.1 Plant Food • Activity 6.1.4 Mighty Micronutrients • Lesson 6.2 All Wet • Activity 6.2.2 Translocation and Transpiration 	• Activity 6.1.1 In Search of NPK**
	3:00-4:00 Asynchronous	<input type="checkbox"/> 10-minute break <input type="checkbox"/> Day 6 Participant Preparation	

Day	Time	Discussion Items	Required for Certification**
Day 6	9:00 – 11:00 Synchronous	<ul style="list-style-type: none"> • AoE: APP Modalities • Lesson 6.3 Lighting it Up • Project 6.3.2 Bright Lights • Activity 6.3.3 Dissecting a Rainbow 	<ul style="list-style-type: none"> • Activity 6.3.1 Plant Pigments**
	11:00 – 1:00 Asynchronous	Lunch <ul style="list-style-type: none"> • Complete morning APPs • Prep for afternoon APPs 	
	1:00 – 3:00 Synchronous	<ul style="list-style-type: none"> • Lesson 6.4 Chilly Lilies • Problem 6.4.2 Forecasting Harvest • Lesson 7.1 Plant Genetics • Ward’s Digital Slides: Mitosis 	<ul style="list-style-type: none"> • Activity 7.1.1 A Closer Look at Mitosis**
	3:00-4:00 Asynchronous	<input type="checkbox"/> 10-minute break <input type="checkbox"/> Day 7 Participant Preparation	
Day 7	9:00 – 11:00 Synchronous	<ul style="list-style-type: none"> • AoE: Materials • Activity 7.1.2 Splitting Genes • Lesson 7.2 Pollination and Dispersion • Activity 7.2.1 An Egg is Not Enough 	<ul style="list-style-type: none"> • Activity 7.1.3 Mendel’s Genetic Studies**
	11:00 – 1:00 Asynchronous	Lunch <ul style="list-style-type: none"> • Complete morning APPs • Prep for afternoon APPs 	
	1:00 – 3:00 Synchronous	<ul style="list-style-type: none"> • Lesson 7.3 Kernels of Life • Ward’s Digital Slides: Seeds • Lesson 7.4 Plant Multiplication 	<ul style="list-style-type: none"> • Activity 7.3.2 Seed Structure and Enzymes**
	3:00-4:00 Asynchronous	<input type="checkbox"/> 10-minute break <input type="checkbox"/> Find asexual propagation demonstration video(s) to use for each method in Lesson 7.4 <input type="checkbox"/> Day 8 Participant Preparation	
Day 8	9:00 – 11:00 Synchronous	<ul style="list-style-type: none"> • AoE: CASE Navigation-Finals Points, PD Certificates • Lesson 8.1 Pesky Bugs and Plants • Problem 8.1.2 Crop Scene Investigation • Lesson 8.2 Diving into Diseases • Ward’s Digital Slides: Bacteria 	<ul style="list-style-type: none"> • Activity 8.2.2 Spying on Bacteria**
	11:00 – 1:00 Asynchronous	Lunch <ul style="list-style-type: none"> • Complete morning APPs • Prep for afternoon APPs 	

Day	Time	Discussion Items	Required for Certification**
	1:00 – 3:00 Synchronous	<ul style="list-style-type: none"> • Lesson 9.1 Tools of Plant Production • Lesson 9.2 Planting the Seeds of Fortune • Project 1.1.4 Producer’s Management Guide 	<ul style="list-style-type: none"> • Problem 9.2.2 School Farm Proposal**