

Introduction to AFNR Scope and Sequence – Hybrid

Virtual Prior to CI/BriefCASE

Day	Time	Discussion Items	Activity and Deliverables <i>*Check-Off Item</i>
Orientation	1-2 hours <i>Synchronous</i>	General Session <ul style="list-style-type: none"> • Introduction of Host, Site, and Site Logistics • Introduction of Lead Teachers • CASE Institute Expectations and Portfolio • MyCASE features 	<ul style="list-style-type: none"> • CASE Curriculum Access • Navigating the Curriculum
Pework	4-5 hours <i>Asynchronous</i>	<ul style="list-style-type: none"> • Unit 1 The Circles of Agricultural Education • Lesson 1.1 Agriculture Everyday • Lesson 1.2 Preparing for your Future • Unit 2 Communicating Today • Lesson 2.1 Listen to Me • Lesson 2.2 Let's Get Together • Lesson 3.1 Ag. Safety and Measurement • Vernier equipment 	<ul style="list-style-type: none"> • <i>Lesson 1.1-3.1 Review*</i> • Watch Vernier pH video - be prepared with 2 ways to take care of or use the pH sensor

In-Person

Day	Time	Discussion Items	Activity and Deliverables <i>*Check-Off Item</i>
Day 1 (In Person)	10:00 – 12:00	<ul style="list-style-type: none"> • Site Logistics - Host • <i>Review Goose Chase</i> of Lesson 1.1-3.1 • Unit 3 The Science of Agriculture • Lesson 3.1 Ag. Safety and Measurement • Lesson 3.2 Agriscience Investigators 	<ul style="list-style-type: none"> • Activity 3.1.4 Measure Me* • Activity 3.2.1 Organize and Classify
	12:00 – 12:45	Lunch	

Day	Time	Discussion Items	Activity and Deliverables <i>*Check-Off Item</i>
	12:45– 5:00	<ul style="list-style-type: none"> • LabQuest Training • Mini-Lesson Purchase Manual and Priorities • Unit 4 Natural Resources • Lesson 4.1 Starting from the Ground Up 	<ul style="list-style-type: none"> • Activity 3.2.2 Quest for Data • ph Sensor Use and Calibration • Activity 3.2.3 Acids and Bases* • Activity 4.1.1 Separating the Pieces • Activity 4.1.2 Extracting Air • Activity 4.1.3 Moving Earth
	Homework:	Pre-read Teacher Notes for following day	
Day 2 (In Person)	8:00 – 12:00	<ul style="list-style-type: none"> • Lesson 4.2 The Whole Soil 	<ul style="list-style-type: none"> • Finish Activity 3.1.4 Measure Me • Finish Activity 4.1.1 Separating the Pieces • Activity 4.2.1 Getting the Feel for Soil • Activity 4.2.2 On Your Mark, Get Set, FLOW! • Activity 4.2.3 Soil Buffers* • Activity 4.2.4 Profiling Soil
	12:00 – 12:45	Lunch	
	12:45– 5:00	<ul style="list-style-type: none"> • Lesson 4.3 Water World • Lesson 4.4 Living in Harmony 	<ul style="list-style-type: none"> • Activity 4.3.3 Spread of Pollutants • Activity 4.3.4 Testing for Quality* • Activity 4.4.1 Eat or Be Eaten • Activity 4.4.2 Passing Gas • Activity 5.6.2 Chill to Be Safe*
	Homework:	Pre-read Teacher Notes for following day	
Day 3 (In Person)	8:00 – 12:00	<ul style="list-style-type: none"> • Unit 5 Plants and Animals • Lesson 5.1 Totally Cellular • Microscope Use • Lesson 5.2 All About Plants 	<ul style="list-style-type: none"> • Activity 5.1.2 Nuclear Onion • Activity 5.1.3 Extracting DNA • Project 5.1.5 Physical Features • Project 5.2.3 Build a Bloom
	12:00 – 12:45	Lunch	
	12:45– 5:00	<ul style="list-style-type: none"> • Concept Mapping • Lesson 5.3 Plant Needs 	<ul style="list-style-type: none"> • Activity 5.2.2 Bean Sprouts • Activity 5.2.4 Sugar from the Sun • Activity 5.2.5 Refueling Plants* • Activity 5.3.1 Standing Tall with Water* • Activity 5.3.2 Grown in the Sun • Activity 5.3.4 Life, Death, and pH
	Homework:	• Pre-read Teacher Notes for following day	

Day	Time	Discussion Items	Activity and Deliverables <i>*Check-Off Item</i>
Day 4 (In Person)	8:00 – 12:00	<ul style="list-style-type: none"> • Lesson 5.4 Animals in Ag 	<ul style="list-style-type: none"> • Activity 5.4.1 What am I? • Activity 5.4.2 Internal Body Systems* • Finish Activity 5.3.1 Standing Tall with Water* • Part Three 4.4.2 Passing Gas • Finish Activity 5.2.5 Refueling Plants* • Observe Activity 5.2.3 Bean Sprouts (part 3)
	12:00 – 12:45	Lunch	
	12:45– 5:00	<ul style="list-style-type: none"> • Lesson 5.5 Animal Care • Lesson 5.6 Edible Agriculture • Unit 6 Agriculture Power and Technology • Lesson 6.1 Energy in Agriculture 	<ul style="list-style-type: none"> • Activity 5.5.2 Keeping Warm • Problem 5.6.4 Cereal Killers • Activity 6.1.2 Electrical Energy* • Activity 6.1.3 Solar Array • Activity 6.1.5 Clean Smoke*
	Homework:	• Pre-read Teacher Notes for remaining units	
Day 5 (In Person)	8:00 – 12:00	<ul style="list-style-type: none"> • Lesson 6.2 This is My Land 	<ul style="list-style-type: none"> • Activity 6.2.1 Stake Your Claim • Activity 6.2.2 Satellite Positioning • Finish Activity 5.2.3 Bean Sprouts • Finish Activity 5.6.2 Chill to be Safe*
	Homework:	Prepare for virtual sessions	

Virtual

Day	Time	Discussion Items	Activity and Deliverables <i>*Check-Off Item</i>
Day 6 (Virtual)	8:00 – 12:00 <i>Asynchronous</i>		<ul style="list-style-type: none"> • Activity 6.2.3 Finding Your Way • Activity 6.2.4 The Precision of GPS* • Activity 6.3.1 How will it measure up?
	12:00 – 1:00	Lunch	
	1:00 – 2:00 <i>Synchronous</i>	<ul style="list-style-type: none"> • Lesson 6.3 How It's Made 	<ul style="list-style-type: none"> • Activity 6.3.2 Drawing to Scale • Activity 6.3.3 Birdhouse Needed • Project 6.3.4 Tools of the Trade*
	3:00-5:00 <i>Asynchronous</i>		<ul style="list-style-type: none"> • Project 6.3.5 Prior Proper Planning • Project 6.3.6 Building from a Blueprint*
Day 7 (Virtual)	1:00 – 5:00 <i>Synchronous</i>	<ul style="list-style-type: none"> • Unit 7 Looking Ahead • Lesson 7.1 Your Future in Agriscience • Revisit Project 1.2.1 Career Portfolio 	<ul style="list-style-type: none"> • Problem 7.1.1 Solving World Hunger • Project 7.1.2 Into the Future • Show and Tell Blueprint Project • Participant survey/reflections • End of Institute Awards and Certification