



Plant Science: FFA and SAE (HAG2301B)

NDCDE User Guide

Welcome: Start Here!

Activity Completion IMPORTANT

Course Overview, Portfolio, and Textbook- READ NOW!

Portfolio Instructions: Download and Read First!

Course Portfolio Information and Examples

How-to Video: Sharing your Pathbrite Portfolio with your Teacher. View, learn, and share yours today!

Course Textbook- USE THIS FOR ALL UNITS, ASSIGNMENTS, AND READINGS.

QUIZ- Course Portfolio- Complete after reading all materials on the Course Portfolio- Within first FIVE days of course

Supervised Agriculture Experience Project Project = 50 Points

SAE Project Requirements

SAE Examples!

SAE Skill Sets (Important Resource for your SAE Portfolio)

SAE: Teacher Contact (Complete within first week of course!)

QUIZ- SAE- Complete after reading all materials about the SAE Project

Discussion Board: Getting to Know You- Complete Before Unit 1 (Within First 10 Days of Class)

Plant Propagation Project--DUE at the end of the course!

Propagating Plants Project -- START AT THE BEGINNING OF THE CLASS!

Propagating Plants from Cuttings- Watch to Prepare for your Project!

Dr. Ken Mudge on cutting propagation- Watch to Prepare for your Project!

Unit 1 ... Origin and Development of Cultivated Plants

Unit 1 Concepts and Terms

Origin and Development of Cultivated Plants E-Chapter

CS301 Origin and Development of Cultivated Plants

Ancient Fertile Crescent Almost Gone, Satellite Images Show

Plant Domestication

History of Plant Cell, Tissue and Organ Cultures

Unit 1 Vocabulary Quiz

Unit 1 Quiz

Unit 2 ... Geographical Distribution of Plants

Unit 2 Concepts and Terms

Geographical Distribution of Plants E-Chapter

CS302 Geographical Distribution of Plants

What are the plants like where you live? (and others!)

Plant Hardiness Zone

The five major biomes

Unit 2 Vocabulary Quiz

Unit 2 Quiz

Unit 3 ... Classifying and Naming Plants or Plant Taxonomy

Unit 3 Concepts and Terms

Plant Taxonomy E-Chapter

CS303 Classifying and Naming Plants or Plant Taxonomy

Understanding Scientific Names

Introduction to Taxonomy

Taxonomic Classification

Unit 3 Vocabulary Quiz

Unit 3 Quiz

Unit 4 ... Plant Structure

Unit 4 Concepts and Terms

Structure of Plants E-Chapter

Structure of Plants PPT

Plant Structure Video

Plant Morphological Features 1

Plant Morphological Features 2

Flower Identification Quiz

Leaf Identification Quiz

Plant Diagrams and Glossary

Making a Plant Collection

Flower Parts

What Are the Parts of a Flower? Try it!

Unit 4 Vocabulary Quiz

Unit 4 Quiz

Unit 5 Anatomy of Plants

Unit 5 Concepts and Terms

Anatomy of Plants E-Chapter

Anatomy of Plants PPT

Plant Cell Interactive

The Busy Leaf -- Photosynthesis

Plant Communities Glossary

Botany Glossary

Plant Anatomy Video

Plant Anatomy Part 1

Plant Anatomy Part 2

Unit 5 Vocabulary Quiz

Unit 5 Quiz

Unit 6 ... Properties of Soil

Unit 6 Concepts and Terms

Properties of Soil E-Chapter

Properties of Soil PPT

Soil Horizons Video

Hidden Horizons Interactive Activity

Soil Orders

Soil Orders Interactive

State Soils Interactive

Guide to Texture by Feel

Unit 6 Vocabulary Quiz

Unit 6 Quiz

Unit 7 ... Role of Water in Plants

Unit 7 Concepts and Terms

Role of Water in Plants E-Chapter

Unit 7 Vocabulary Quiz

Soil and Water Retention

NOAA Soil Moisture

Plants and Water

Transportation in Plants

Unit 7 Quiz

Mid-Term Exam

Mid-Term Exam

2nd Major Portfolio Update

Unit 8 ... Plant Nutrients and Their Roles

Unit 8 Concepts and Terms

Essential Nutrients and Their Roles E-Chapter

Essential Nutrients and Their Roles PPT

Guide to Symptoms of Plant Nutrient Deficiencies

The range of organisms that can fix nitrogen

Physiology and anatomy of nitrogen fixation

Ecology of nitrogen fixation

Plant Nutrition and Transport

Fertilizers: Soil-Plant-Nutrient Relationships

Unit 8 Vocabulary Quiz

Unit 8 Quiz

Unit 9 ... Effect of Temperature on Plants

Unit 9 Concepts and Terms

Effect of Temperature on Plants E-Chapter

Degree Days

Degree Days Regions

Calculating Degree Days

Normal Temperature, Precipitation and Degree Days

Warming Temperatures Have Plants Moving North

Effect of High Temperatures on Small Grain Development and Yield

Unit 9 Vocabulary Quiz

Unit 9 Quiz

Unit 10 ... Light and Plants

Unit 10 Concepts and Terms

Light and Plants E-Chapter

Photoperiodism

Scientific Basis For Autumn

The effect of light on plant growth

The Effect of Light Color on Plant Growth

Unit 10 Vocabulary Quiz

Unit 10 Quiz

Unit 11 ... Photosynthesis

Unit 11 Concepts and Terms
Understanding Photosynthesis E-Chapter
Understanding Photosynthesis PPT
An Introduction to Photosynthesis and Its Applications
Chlorophylls and Carotenoids
Photosynthesis
Chlorophyll
Photosynthesis Video 1
Photosynthesis Video 2
Photosynthesis Video 3
Unit 11 Vocabulary Quiz
Unit 11 Quiz

Unit 12 ... Understanding Plant Respiration

Unit 12 Concepts and Terms
Understanding Plant Respiration E-Chapter
Respiration Rates of Storage Tissue in Plants
Cellular Respiration (Electron Transport Chain)
Plant Growth Factors: Photosynthesis, Respiration, and Transpiration
Photosynthesis and Respiration
Cellular Respiration Video
Unit 12 Vocabulary Quiz
Unit 12 Quiz

Unit 13 ... Basics of Plant Growth

Unit 13 Concepts and Terms
Basics of Plant Growth E-Chapter
Plant Growth
Global Plant Study by Salk Scientists Identifies Light-Adjusting Gene
Plant Growth and Development as the Basis of Forage Management
Plant Growth And Development Video
Time Lapse - Tomato Plant
Unit 13 Vocabulary Quiz
Unit 13 Quiz

Unit 14 ... Vegetative Growth

Unit 14 Concepts and Terms
Vegetative Growth E-Chapter
Plant Growth Regulators
Burpee Seeds
Pesticide Chemical Search
Plant Growth Regulators and Biotechnology
Wheat Seed Germination Test in Paper
Seed Germination Project
Unit 14 Vocabulary Quiz

Unit 15 ... Plant Propagation

Unit 15 Concepts and Terms
Propagation of Plants E-Chapter
Meiosis
Learn about Tissue Culture -- Part 1
Tissue Culture - Part 2
Plant Tissue Culture

Plant Propagation: Sexual Propagation
Sexual Reproduction in Flowering Plants
Plant Propagation: Asexual Propagation
Plant Propagation Chart -- Very Good KEEP!
Plant Reproduction: Asexual Reproduction
Unit 15 Vocabulary Quiz
Unit 15 Quiz

Unit 16 ... FFA Proficiency Awards and your SAE

Your SAE and Proficiency Awards E-chaper
Your SAE and Proficiency Awards Study Guide
Introduction to SAE Presentation Video
ffachp5 Prof Awards
Essential Elements of SAE
Explore SAE
SAE Video

Unit 17: Your SAE and Award Applications

Proficiency Award Worksheet
Greenhand Degree Application
Chapter Degree Application
State and American Degree Application

3rd & Final Portfolio Update: Complete Now

Plant Science I Final Exam

Plant Science I Final Exam
NAASO Survey -- PLEASE COMPLETE THE SURVEY!
SAE Project- FINALIZE NOW IN YOUR PORTFOLIO
Propagating Plants Project ... SUBMIT PROJECTin your Pathbrite Portolfio

End of Course Survey

End of Course Survey