

Domain 5 Lesson Plan

Domain 5 - Plant Science [approximately 4 hours of videos, labs, and projects]				
Lesson	Lesson Topic and Subtopics	Objectives	Exercise Labs	Workbook Projects and Files
Pre-Assessment Assessment time - 00:30:00	Plant Science: Pre-Assessment			
Lesson 1 Video time - 00:11:11 Exercise Lab time - 00:04:00 Workbook time - 00:35:00	Principles of Plant Biology Photosynthesis Role of Each Plant Part Monocotyledon and Dicotyledon	5.1 Explain principles of plant biology 5.1.1 Explain the requirements necessary for photosynthesis to occur and identify the products and byproducts of photosynthesis 5.1.2 Explain the role of each part of a plant (e.g., root, stem, leaves, flower, fruit, seed) 5.1.3 Differentiate between monocotyledon and dicotyledon plants	Monocot and Dicot	Photosynthesis – pg. 77 N/A Plant Parts – pg. 78 N/A Types of Vascular Plants – pg. 79 N/A Review 5.1 – pg. 80 N/A
Lesson 2 Video time - 00:14:06 Exercise Lab time - 00:04:00 Workbook time - 00:30:00	Plant Nutrients Nutrient Roles and Plant Growth Macronutrients Micronutrients Chlorosis Fertilizer Application Methods	5.2 Summarize plant nutrients and their delivery 5.2.1 Understand the roles of macronutrients in plant growth 5.2.2 Know different application methods of fertilizers	Plant Conditions	Macronutrients and Micronutrients for Plant Growth – pg. 82 N/A Application Methods for Fertilizers – pg. 83 N/A Review 5.2 – pg. 84 N/A
Lesson 3 Video time - 00:10:25 Exercise Lab time - 00:08:00 Workbook time - 00:30:00	How Seeds Germinate and Grow Light Moisture Temperature Oxygen Humidity	5.3 Explain what seeds need to germinate and grow 5.3.1 Light 5.3.2 Moisture 5.3.3 Temperature 5.3.4 Oxygen 5.3.5 Humidity	Overwatering and Drought Specialized Equipment	Light – pg. 86 N/A Moisture – pg. 87 N/A Temperature, Oxygen, and Humidity – pg. 88 N/A Review 5.3 – pg. 89 N/A
Post-Assessment Assessment time - 01:00:00	Plant Science: Post-Assessment			