

Elizabethtown Area School District
Scope & Sequence - Quick Reference



Department: Agriculture Education

Course: Greenhouse Management & Landscape Design

Grade Level(s): 10-12th Grade

<i>Unit Title</i>	<i>General Topic(s)</i>	<i>Pacing</i>
1. Plant Science	<ul style="list-style-type: none">● Plant Parts and their Function● Plant Life Cycles<ul style="list-style-type: none">○ Annual○ Biannual○ Perennial● Plant tissues● Monocot vs Dicot● Plant Nutrients and Growth Requirements● Plant Hormones● Plant Taxonomy and Identification	4 Weeks
2. Plant Propagation, Soils, and Cycles	<ul style="list-style-type: none">● Sexual and Asexual Reproduction<ul style="list-style-type: none">○ Seeds○ Cuttings● Soil Texture<ul style="list-style-type: none">○ Soil Triangle○ Ribbon Test● Soil Structure● Soil Testing and Analysis● Carbon and Nitrogen Cycle	4 Weeks
3. Greenhouse Management	<ul style="list-style-type: none">● Types of Greenhouse Structures● Light Requirements● Temperature Requirements● Air/Water Requirements	4 Weeks

	<ul style="list-style-type: none"> ● Greenhouse Controls ● Growing Benches/Structures ● Hydroponics ● Insect and Disease Control (Intro) 	
4. Plants as Food	<ul style="list-style-type: none"> ● Origins of Agriculture ● Plants and the Food Web ● Edible Greenhouse Crops 	1 Week
5. Integrated Pest Management	<ul style="list-style-type: none"> ● Controlling insects and disease in the greenhouse. <ul style="list-style-type: none"> ○ Parts of an insect ○ Insect Life Cycles ○ Insect Identification and Control ○ Disease - Identification and Control ○ Weed Control - Herbicides ● Pesticide safety <ul style="list-style-type: none"> ○ Toxicity ○ Personal Protective Equipment ○ Pesticide Labels ○ Pesticides and the Environment ○ Applying Pesticides Safely ● Other Methods of Pest Control <ul style="list-style-type: none"> ○ Biological ○ Mechanical ○ Cultural 	3 Weeks
6. Landscape Design	<ul style="list-style-type: none"> ● Principles of Landscape Design ● Art in the Landscape ● Landscape Tools and Equipment ● Landscape Plant Identification ● Care of the Landscape <ul style="list-style-type: none"> ○ Water, Pruning, Mulch, etc. ● Hardscapes ● Turfgrass Management 	2 Weeks