**PACING GUIDE**

**COURSE:** Horticulture 2 **GRADE(S): 10-12**

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| **MONTH** | **UNIT** | **STANDARDS/SKILLS** | **ASSESSMENTS**What evidence (formative/summative) is utilized to establish that the content, standards, & skills have been mastered? | **CONTENT**Topics being covered? What do students need to know? (*nouns*) | **ACTIVITIES**w/Integration of Technology & Career Ready Practices |
| September | Hort Science | Examine and apply knowledge of basic plant anatomy and physiology, using taxonomy9.3.12.AG‐PL.19.3.12.AG‐PL.29.3.12.AG‐PL.39.3.12.AG‐PL.4Apply principles of anatomy and physiology to enhance plant production. | mycaert .com online written assessment

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|  Leaf Anatomy and Morphology Review Worksheet |
|  Leaf Anatomy and Morphology Notes Guide |
|  Understanding Leaf Anatomy and Morphology Quiz |

 | * Classifying Ornamental Plants
* Student will Identify plants and the cultural requirements for reproduction
* Sexual Reproduction of Flowering Plants
* Understand Flower Anatomy
* Understand leaf anatomy and morphology
* Understand Stem Anatomy

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 | * PPT Presentation
* Small group google slide presentations
* Flower and leaf Dissections
* Greenhouse Pruning work stations
* Hands on Plant care , watering, pruning, fertilizing
* Courtyard Lab
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| October | Hort Science | Examine and apply knowledge of basic plant anatomy and physiology, using taxonomy9.3.12.AG‐PL.19.3.12.AG‐PL.29Apply principles of anatomy and physiology to enhance plant production. | * mycaert .com online written assessment
 | * Propagating Plants Sexually
* Describe the process of seed germination
* Propagating plants by division, separation. And layering
* Understanding plant growth regulators
 | * slide presentations
* Flower and leaf Dissections
* Greenhouse Pruning work stations
* Courtyard Lab
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| NovemberNovemberDecember | FloricultureFloriculture  |  Visual Arts9.3.12.AG‐PL.39.3.12.AG‐PL.19.3.12.AG‐PL.29 Visual Arts | * Mycaert online written assessment
* CDE Floral design performance
* Mycaert online written assessment
* CDE Floral design performance
 | * Caring for Fresh Flowers and Foliage
* Identifying Floral Design Tools and Supplies
* Understanding the Principles of Floral Design
* Designing Basic Floral Work
 | * Hands on
* Conditioning Fresh cut flowers
* Courtyard Lab
* Design Centerpieces
* Design Holiday Arrangements
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| January | Floriculture | 9.3.12.AG‐PL.19.3.12.AG‐PL.29 Visual Arts | * Mycaert online written assessment
* CDE Floral design performance
 | * Understanding the Principles of Floral Design
* Designing Basic Floral Work
 | * Designing Vase Arrangements
* Student Compete in (CDE)
* Pricing Floral Design Work
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| February March | Hort Science | 9.3.12.AG‐PL.19.3.12.AG‐PL.29 Visual Arts | * Mycaert online written assessment
* CDE Floral design performance
 | * Propagating Plants Sexually
* Understanding the Principles of Floral Design
* Designing Basic Floral Work
 | * Philadelphia Flower Show
* NJ State Horticultural Expo
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| April | Hort ScienceAnimal Science and the Industry | 9.3.12.AG‐PL.19.3.12.AG‐PL.2 | * Mycaert online written assessment
* Performance Assessment
 | * Examining Sexual Reproduction of Flowering Plants
* The Aquaculture Industry
* Organic Production of Fruits and Vegetables
 | * Greenhouse Aquaponic
* Greenhouse Hydroponics
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| May | Hort ScienceAnimal Science and the Industry | 9.3.12.AG‐PL.19.3.12.AG‐PL.29 | * Mycaert online written assessment
 | * The Aquaculture Industry
* Organic Production of Fruits and Vegetables
 | * Greenhouse Aquaponic
* Greenhouse Hydroponics FFA Convention
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| June | Nursery, Landscaping, and GardeningAnimal Science and the Industry | 9.3.12.AG‐PL.19.3.12.AG‐PL.2 | * Mycaert online written assessment
 | * The Aquaculture Industry
* Organic Production of Fruits and Vegetables
 | * Greenhouse Aquaponic
* Greenhouse Hydroponics
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