

Nursery Landscape CDE

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Career Development Purpose and Objectives:

Purpose:

To stimulate career interest, encourage proficiency development, and recognize excellence in students of nursery practices and landscaping through the agricultural education curriculum.

Objective:

To demonstrate the ability to identify nursery and landscape plant materials and turf grasses commonly used in the United States.

To demonstrate the ability to identify unhealthy plant conditions due to pests, nutritional or physiological disorders, and mechanical or chemical injury.

To demonstrate knowledge of the principles and skills involved in propagation, growth requirements, growing techniques, harvesting, marketing and maintenance of nursery plants and landscape turf.

To demonstrate knowledge of the principles and techniques of landscape design and construction.

To demonstrate the ability to identify, select, use and maintain appropriate supplies and equipment for nursery and landscape operations, including equipment and procedures in mechanization and automation.

To demonstrate knowledge of safety practices in nursery and landscape operations.

To demonstrate skills in oral and written business communications.

To demonstrate understanding of marketing principles and proper sales and service skills.

To demonstrate the ability to prepare accurate and legible records and reports and to interpret business documents.

Related Content Standards – Humanities:

Standard 1: Acquisition and use of language

Goal 1.1: Listening

7-12.WL1.1.1.1 Comprehend basic vocabulary in isolation and in context.

7-12.WL1.1.1.2 Capture essential information from everyday conversations and short passages (e.g., cognates, context clues).

Goal 1.2: Speaking

7-12.WL1.1.2.1 Use basic vocabulary to respond to familiar prompts.

7-12.WL1.1.2.2 Express preferences, desires, opinions, and feelings.

7-12.WL1.1.2.3 Use appropriate level of politeness in simulated social exchanges.

Goal 1.3: Reading

7-12.WL1.1.3.1 Decode written text, diacritical marks, and symbolic systems.

Standard 2: Critical Thinking

Goal 2.1: Analysis of Language Elements and Products

7-12.WL1.2.1.2 Derive meaning from word order.

Related Content Standards – Language Arts:

Related Content Standards – Mathematics:

8-9 Grade Math

Standard 1: Number and Operation

Goal 1.1: Understand and use numbers.

9.M.1.1.2 Use positive and negative numbers, absolute value, fractions, decimals, percentages, and scientific notation, including application in real world situations.
(347.01.a)

9.M.1.1.5 Solve problems using number theory concepts (factors, multiples, primes).
(347.01.d)

Goal 1.2: Perform computations accurately.

9-10.M.1.2.1 Use the order of operations and perform operations with rational numbers.
(347.02.a)

Goal 1.3: Estimate and judge reasonableness of results.

9-10.M.1.3.1 Apply number sense to everyday situations and judge reasonableness of results. (347.03.a)

9-10.M.1.3.2 Identify that error accumulates in a computation when there is rounding.
(349.05.b)

Goal 2.2: Apply the concepts of rates, ratios, and proportions.

9-10.M.2.2.1 Use rates, ratios, proportions, and map scales in problem-solving situations.
(349.03.a)

9-10.M.2.2.2 Apply concepts of rates and direct and indirect measurements.

9-10.M.2.2.3 Construct equivalent units, comparable units, and conversions. (349.02.a)

Goal 2.3: Apply dimensional analysis.

9-10.M.2.3.1 Use customary and metric units and their relationship to one another and to real world applications involving length, area, capacity, weight, time, and temperature.
(349.04.a)

Goal 2.4: Apply appropriate techniques and tools to determine measurements.

9.M.2.4.1 Determine and use appropriate units. (349.01.a)

9.M.2.4.2 Approximate error in measurement situations.

10 Grade Math

Standard 1: Number and Operation

Goal 4.5: Use reasoning skills.

10.M.4.5.1 Use logic to make and evaluate mathematical arguments. (348.02.b)

Related Content Standards – Science:

9-10 Grade Biology

Standard 1: Nature of Science

Goal 1.6: Understand Scientific Inquiry and Develop Critical Thinking Skills

9-10.B.1.6.1 Identify questions and concepts that guide scientific investigations. (649.01a)

9-10.B.1.6.2 Utilize the components of scientific problem solving to design, conduct, and communicate results of investigations. (649.01b)

9-10.B.1.6.3 Use appropriate technology and mathematics to make investigations. (649.01c)

9-10.B.1.6.4 Formulate scientific explanations and models using logic and evidence. (649.01d)

9-10.B.1.6.5 Analyze alternative explanations and models. (649.01e)

9-10.B.1.6.6 Communicate and defend a scientific argument. (649.01f)

Goal 1.8: Understand Technical Communication

9-10.B.1.8.1 Analyze technical writing, graphs, charts, and diagrams. (658.02a)

8-9 Grade Earth Science

Standard 1: Nature of Science

Goal 1.6: Understand Scientific Inquiry and Develop Critical Thinking Skills

8-9.ES.1.6.1 Identify questions and concepts that guide scientific investigations. (649.01a)

8-9.ES.1.6.2 Utilize the components of scientific problem solving to design, conduct, and

communicate results of investigations. (649.01b)

8-9.ES.1.6.3 Use appropriate technology and mathematics to make investigations. (649.01c)

8-9.ES.1.6.4 Formulate scientific explanations and models using logic and evidence. (649.01d)

8-9.ES.1.6.5 Analyze alternative explanations and models. (649.01e)

8-9.ES.1.6.6 Communicate and defend a scientific argument. (649.01f)

8-9.ES.1.6.7 Explain the differences among observations, hypotheses, and theories. (649.01g)

Goal 1.8: Understand Technical Communication

8-9.ES.1.8.1 Analyze technical writing, graphs, charts, and diagrams. (658.02a)

8-9 Grade Physical Science

Standard 1 Nature of Science

Goal 1.6: Understand Scientific Inquiry and Develop Critical Thinking Skills

8-9.PS.1.6.1 Identify questions and concepts that guide scientific investigations. (649.01a)

8-9.PS.1.6.2 Utilize the components of scientific problem solving to design, conduct, and communicate results of investigations. (649.01b)

8-9.PS.1.6.3 Use appropriate technology and mathematics to make investigations. (649.01c)

8-9.PS.1.6.5 Analyze alternative explanations and models. (649.01e)

8-9.PS.1.6.6 Communicate and defend a scientific argument. (649.01f)

8-9.PS.1.6.7 Explain the differences among observations, hypotheses, and theories. (649.01g)

Related Content Standards – Social Studies Economics: