

Topic: Unit C-3-Pollinators

Days: 20

Subject(s): Vocations

Grade(s): 12th

Know:

Understand:

Do:

13.4.A – Compact

Analyze entrepreneurship as it relates to personal career goals and corporate opportunities.

13.1.B – Compact

Analyze career options based on personal interests, abilities, aptitudes, achievements and goals.

13.1.E – Compact

Justify the selection of a career.

Students should understand the important role that all pollinators play in our ecosystem

3.4.12.E2. – Essential

AGRICULTURAL AND RELATED BIOTECHNOLOGIES - Compare and contrast the technologies of biotechnology, conservation, bio-fuels, and ecosystems as they relate to managing Earth's resources effectively.

13.1.A – Essential

Relate careers to individual interests, abilities, and aptitudes.

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Common Assessments on what students should know and do in this unit:

- Written Test
- Identification Guide
- Plant Variety
- Enemies of Pollinators

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2. Assessments 1

Short Description:

Written Test

Long Description:

Students will complete a written test for this pollinators unit

Differentiation:

Modification will be made when necessary for different levels of learning

Time (in days):

1

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2. Assessments 2

Short Description:

Identification Guide

Long Description:

Students will create an identification guide for the different pollinators in Pennsylvania

Differentiation:

Modification will be made when necessary for different levels of learning

Time (in days):

3

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2. Assessments 3

Short Description:

Plant Variety

Long Description:

Students will create a plant variety chart that will categorize plants with different pollinators

Differentiation:

Modification will be made when necessary for different levels of learning

Time (in days):

3

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2. Assessments 4

Short Description:

Enemies of Pollinators

Long Description:

Students will create a chart of the different enemies of pollinators in Pennsylvania

Differentiation:

Modification will be made when necessary for different levels of learning

Time (in days):

3

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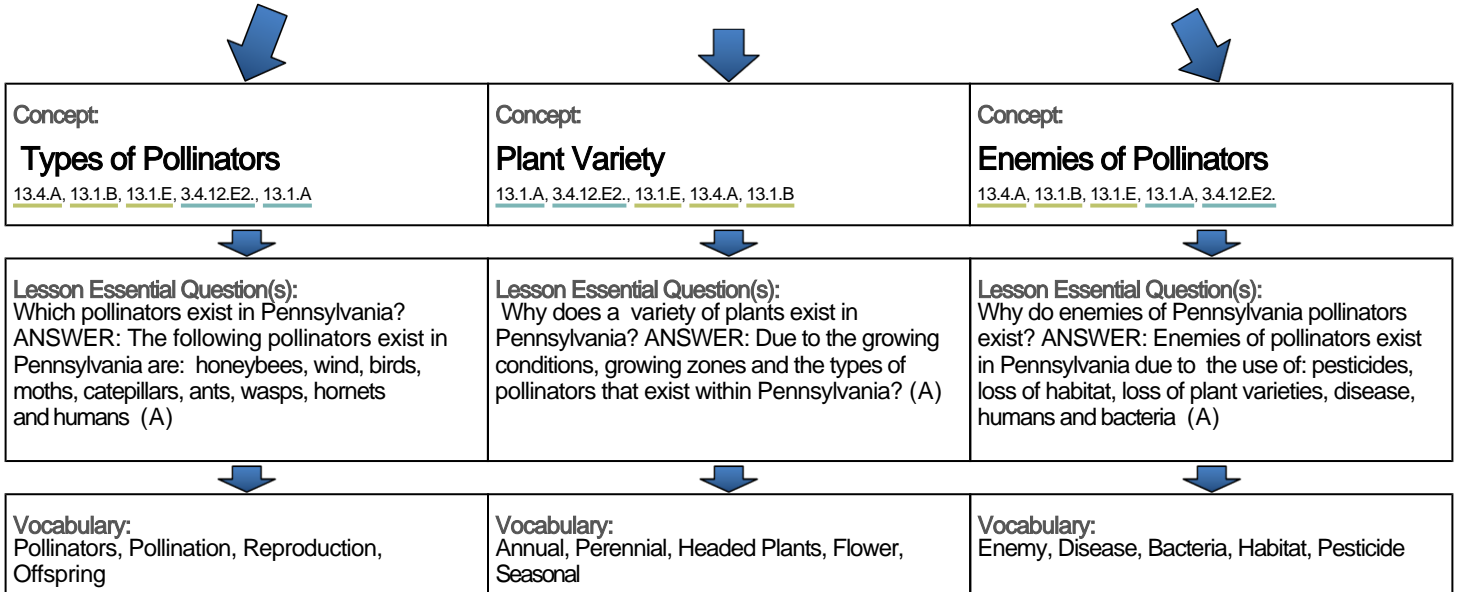
Subject(s): Vocations

Grade(s): 12th

Key Learning: Students should understand the important role that all pollinators play in our ecosystem.



Unit Essential Question(s): How are all pollinators important to our society?



Additional Information:

Attached Document(s):

Vocab Report for Topic: Unit C-3-Pollinators

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Concept: Types of Pollinators

Pollinators - Anything that helps to spread seeds of plants

Pollination - The act of distributing seeds from plants

Reproduction - The increase of a living organism

Offspring - A new plant or animal from its parent

Concept: Plant Variety

Annual - Plants that live their life in one cycle

Perennial - Plants that live their life through many cycles

Headed Plants - Plants that create large seed heads

Flower - The color part of the plant

Seasonal - Plants that grow at a certain time of the year

Concept: Enemies of Pollinators

Enemy - Anything that has a negative affect on another organism

Disease - Microscopic organism that affects plants

Bacteria - A microscopic organism that has a negative affect on plants

Habitat - A place where plants and animal live

Pesticide - Chemicals used to control plant and animal growth

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5. Launch Activity 1

How are you going to get students engaged?

Develop student interest and link their prior knowledge.
Start the Student Learning Map of the unit with students.
Preview key vocabulary with students.:

Short Description:

Pollinators

Long Description:

Students will create a list of the pollinators that exist in Pennsylvania

Differentiation:

Modification will be made when necessary for different levels of learning

Time (in days):

1

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Concept: Types of Pollinators

5. Acquisition Lesson

Plan for the Concept, Topic, or Skill -- Not for the Day

Lesson Essential Question:

Which pollinators exist in Pennsylvania?

ANSWER: The following pollinators exist in Pennsylvania are: honeybees, wind, birds, moths, caterpillars, ants, wasps, homets and humans

What do students need to learn to be able to answer the Essential Question?

Assessment Prompt 1: Why do different pollinators exist?

Activating Strategy:

Brainstorm Web

Key vocabulary to preview:

Wordsplash

Teaching Strategies:

Graphic Organizer:

Character Map

Instruction:

AP: Why do different pollinators exist?

Hook & Link

Assignment and/or Assessment:

Identification Guide

Summarizing Strategy:

Ticket Out the Door

Differentiation:

Modification will be made when necessary for different levels of learning

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Concept: Types of Pollinators

5. Acquisition Lesson

Review / Revise:

Reflection Questions

Resources and Materials:

Agricultural Science Textbook

Time (in days):

3

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Concept: Plant Variety

5. Acquisition Lesson

Plan for the Concept, Topic, or Skill -- Not for the Day

Lesson Essential Question:

Why does a variety of plants exist in Pennsylvania?

ANSWER: Due to the growing conditions, growing zones and the types of pollinators that exist within Pennsylvania?

What do students need to learn to be able to answer the Essential Question?

Assessment Prompt 1: List and explain the different plants that exist in Pennsylvania

Activating Strategy:

Prediction Guide

Key vocabulary to preview:

Wordsplash

Teaching Strategies:

Graphic Organizer:

Compare and Contrast

Instruction:

AP: List the different plants that exist in Pennsylvania

Hook & Link

Assignment and/or Assessment:

Identification Guide

Summarizing Strategy:

3-2-1

Differentiation:

Modification will be made when necessary for different levels of learning

Review / Revise:

Topic: Unit C-3-Pollinators

Days: 20

Subject(s): Vocations

Grade(s): 12th

Concept: Plant Variety

5. Acquisition Lesson

Reflection Questions

Resources and Materials:

Agricultural Science Textbook

Time (in days):

3

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Concept: Enemies of Pollinators

5. Acquisition Lesson

Plan for the Concept, Topic, or Skill -- Not for the Day

Lesson Essential Question:

Why do enemies of Pennsylvania pollinators exist?

ANSWER: Enemies of pollinators exist in Pennsylvania due to the use of: pesticides, loss of habitat, loss of plant varieties, disease, humans and bacteria

What do students need to learn to be able to answer the Essential Question?

Assessment Prompt 1: Create a list of enemies of pollinators in Pennsylvania and explain their origin

Activating Strategy:

Fayer Model

Key vocabulary to preview:

Wordsplash

Teaching Strategies:

Graphic Organizer:

Classifying / Categorizing

Instruction:

AP: Create a list of enemies of pollinators in Pennsylvania and explain their origin

Teacher Led Discussion

Assignment and/or Assessment:

Create a list of enemies of pollinators in Pennsylvania

Summarizing Strategy:

The Important Thing

Differentiation:

Modification will be made when necessary for different levels of learning

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Concept: Enemies of Pollinators

5. Acquisition Lesson

Review / Revise:

Reflection Questions

Resources and Materials:

Agricultural Science Textbook

Time (in days):

3

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8. Differentiating the Unit

What accommodations will you make in order to meet the varied interest, learning styles, and ability levels of all students?

Differentiation Associated with the Unit:

Differentiation Associated with Lessons and Activities:

Student Assessment 1: Written Test :

Modification will be made when necessary for different levels of learning

Student Assessment 2: Identification Guide :

Modification will be made when necessary for different levels of learning

Student Assessment 3: Plant Variety :

Modification will be made when necessary for different levels of learning

Student Assessment 4: Enemies of Pollinators :

Modification will be made when necessary for different levels of learning

Launch Activity 1: Pollinators :

Modification will be made when necessary for different levels of learning

Acquisition Lesson 1::

Which pollinators exist in Pennsylvania?

ANSWER: The following pollinators exist in Pennsylvania are: honeybees, wind, birds, moths, caterpillars, ants, wasps, hornets and humans

Modification will be made when necessary for different levels of learning

Acquisition Lesson 2::

Why does a variety of plants exist in Pennsylvania?

ANSWER: Due to the growing conditions, growing zones and the types of pollinators that exist within Pennsylvania?

Modification will be made when necessary for different levels of learning

Acquisition Lesson 3::

Why do enemies of Pennsylvania pollinators exist?

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ANSWER: Enemies of pollinators exist in Pennsylvania due to the use of: pesticides, loss of habitat, loss of plant varieties, disease, humans and bacteria

Modification will be made when necessary for different levels of learning

Curriculum: CCSD CURRICULUM

Course: Agricultural Science IV (4/14/14)

Teacher/Team Name: Brown/Turner

PENNSYLVANIA

Date: April 13, 2014 ET

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What resources and materials do you need for this unit, the lessons, and the activities?

Resources Associated with the Unit:

Resources Associated with Lessons and Activities:
