

Africanized Honey Bee Curriculum Content Standards Grades K-12

Project Area Skill refers to the subject matter based skill which youth demonstrate in relation to the correlating content standard.

Objective:

Art-

Content Standard 1: Learn and develop the essential skills and technical demands unique to dance, music, theatre/drama, visual arts.

Theatre Benchmarks: K-4: A,C

Visual Arts Benchmarks: K-4: C

Project Area Skill: The youth will portray characters in short dramatizations depicting scenarios they may face encountering Africanized honey bees. The leader will create the script and the youth will use their body and voice to create characters for the scenarios. By using their acting skills to play in these scenarios the youth will know what to do when they encounter a real bee situation such as if one of their friends gets stung. Moreover the youth will use art materials in a safe and responsible manner to create honey bees out of paper.

Content Standard 2: Use dance, music, theatre/drama, and visual arts to express ideas.

Theatre Benchmarks: K-4: A

Project Area Skill: The youth will express emotion and action in dramatization. They will practice how they will react to certain situations having to do with bees. By demonstrating these situations the youth will know what to do, if they really encounter an Africanized Honey bee.

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Objective:

Career Readiness-

2. Students will utilize and manage resources effectively to produce quality services and products.

Benchmarks: K-4: A,B,C; 5-8: A; 9-12: A,B

Project Area Skill: The youth will manage resources as they construct bees out of paper, play bingo, and use flashcards to test their knowledge of different types of bees. They will produce quality projects such as a paper bee. Furthermore, they will have the knowledge necessary to properly handle a situation involving Africanized honey bees.

4. Students will develop and demonstrate responsible and ethical workplace behaviors.

Benchmarks: K-4: B,C,D,E; 5-8: A,B,C,D; 9-12: A,B,C,E;

Project Area Skill: The youth will demonstrate positive classroom behaviors as they interact with each other in activities such as dramatizations, quizzing each other with flash cards and playing “Beego”. They will also learn the safety aspects and actions to deal with Africanized bees.

5. Students will develop effective leadership, interpersonal, and team skills.

Benchmarks: K-4: A,B,C,D; 5-8: C,D; 9-12: A,C,D

Project Area Skill: The youth will practice working together in groups, delegate tasks while identifying the areas Africanized bees may nest and what they should do when encountering a bee. They will also learn how proper communication skills with their peers can help reduce a dangerous situation.

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Objective:

Health-

- 5. Students will demonstrate the ability to use interpersonal communication skills to enhance health.**

Benchmarks: K-4: B,D,E; 5-8: E

Project Area Skill: The youth will practice working together to resolve situations involving interactions with bees. They will also learn how to identify a variety of hazardous and harmless bees, and how to distinguish between them. Furthermore the youth will use the information they have gained from class to bee proof their home.

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Objective:

Math-

- 1. Numbers and Operations: students will understand numerical concepts and mathematical operations.**

Benchmarks: K-4: A 5-8: B,C

Project Area Skill: The youth will count the different body parts of a honey bee such as how many legs it has. They will also solve story problems involving distance and weight.

- 2. Measurement: students will understand measurement systems and applications.**

Benchmarks: 5-8: A,B

Project Area Skill: The youth will apply various measurement techniques as they work through story problems. Upon completion of the activity they will learn about the distance a bee can fly with various amounts of pollen and nectar, measured in milligrams.

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Objective:

Language Arts-

- 1. Reading and Listening for Comprehension: students will apply strategies and skills to comprehend information that is read, heard, and viewed.**

Benchmarks: K-4: A,B,C,D; 5-8: A,B,C,D; 9-12: A,C,D

Project Area Skill: The youth will listen to their instructor talk about various issues evolving around Africanized Honey Bees. They will learn new terminology such as “bee bread” and antennae. Moreover they will be encouraged to read information about honey bees and share their previous knowledge of honey bee encounters with their peers and instructor so they can discuss any misconceptions.

- 2. Writing and Speaking for Expression: students will communicate effectively through speaking and writing.**

Benchmarks: K-4: A,B,C; 5-8: A,C; 9-12: A,C

Project Area Skill: The youth will write their experiences with bees in a journal. They will share their experience by reading a journal entry to the class. By telling the class their experience they will be able to discuss prevention measures for the future and clear up any misconceptions that may arise during the discussion. Moreover the youth will learn new vocabulary such as bee bread and antennae; and test their spelling skills by competing in a spelling bee.

- 3. Literature and Media: students will use literature and media to develop an understanding of people, societies, and the self.**

Benchmarks: K-4: A,B

Project Area Skill: The youth will learn the motives behind bringing the Africanized Honey Bee to the United States. They will also learn about different types of bees that reside in the US and the country they originated from.

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Objective:

Science-

Strand II: Content of Science

Standard II: Life Science: explain the diverse structures and functions of living things and the complex relationships between living things and their environments.

K-4 Benchmarks: I,II

5-8 Benchmarks: I,II

9-12 Benchmarks: I

Project Area Skill: The youth will learn the differences between Africanized Honey bees and the common bees, such as the European bee. They will learn about the habitats of the bees and some ways they can “bee proof” their house.