

Background History for Butterflies and Botany Program:

Boone Hall Plantation In 1681, Major John Boone was granted 400 acres of land from the Lord Proprietors. He then expanded this land from 1681 to 1711 when he died. His 17,000 acres that was call Boone Hall Plantation was a substantial piece of property in the Lowcountry of Carolina. After many years and many owners, this plantation remains a place of beauty for all to see.

Butterfly Pavilion Boone Hall's Butterfly Pavilion was erected in 2004 so that visitors could get a glimpse of the many native species of butterflies that live here. In the pavilion you can see the life cycle of the butterfly from egg to adult. One can also view the different plants that these butterflies need in order to live. Butterflies are very important creatures as they tell us if an area is polluted or not.

Agricultural Crops Three main cash crops were planted on this plantation between 1681 and the early 1900s. Indigo, cotton and pecan trees supplied the plantation with all of the wealth it could afford. Today Boone Hall Plantation is one of the only working plantations left in South Carolina. The staple crops of the plantation are strawberries, tomatoes, peppers, and pumpkins although; grapes, blueberries, and asparagus are also grown here.

Program Goals:

Students will be able to:

- ▶ View the butterflies in an enclosed habitat and in the wild
- ▶ Relate environmental issues to the lives of butterflies and the importance of their actions in the future
- ▶ Interpret the life cycle of a butterfly
- ▶ Identify what plants a butterfly needs to live
- ▶ Explain how butterflies use camouflage to survive

2008 South Carolina Academic Standards Fulfilled:

Science: K-1.1, K-1.2, K-2.1, K-2.2, K-2.4, K-2.5, K-4.3
1-1.2, 1-1.3, 1-1.4
2-1.1, 2-1.4, 2-1.5, 2-2.1, 2-2.2, 2-2.4, 2-2.5
3-1.1, 3-1.2, 3-1.3, 3-1.8, 3-2.1, 3-2.2, 3-2.3, 3-2.4

Social Studies: K-4.2
1-2.2

English Language Arts: K-3.3, K-3.7, K-6.4, K-6.5
1-3.3, 1-6.4, 1-6.5
2-3.1, 2-3.3, 2-6.1, 2-6.5, 2-6.6
3-3.1, 3-6.1, 3-6.3, 3-6.6

Vocabulary: Character Education Vocabulary

Responsibility - moral, legal, or mental accountability

Respect - the quality or state of being held in high or special regard

Trust - assured reliance on the character, ability, strength, or truth of someone or something

Caring – to watch over or take charge of something

Program Specific Vocabulary

Egg - the oval or round object that is laid by a female bird, fish, reptile, insect, or other animal. A young animal of the same kind hatches from it at a later time.

Chrysalis - hard shelled pupa of a moth or butterfly

Pupa - an insect in the stage of development between a larva and an adult

Metamorphosis - the change in form that some animals go through in developing

Host plant - plants that eggs and larva are likely to be found on

Nectar plant - plants that produce a high quantity of a sugary liquid fed on by adult butterflies

Fragile - easily broken or damaged; delicate

Pre and Post Visit Activities:

Pre-Site Activities:

1. Review the vocabulary and draw a picture or act out an example that represents each word.
2. Go to the website, www.boonehallplantation.com, to learn about Boone Hall Plantation and its resources
3. Read books and newspapers or magazines articles relating to butterflies.
4. Research the different types of South Carolina butterflies.
5. Listen to a few songs or make up a song about the life of a butterfly.

Post-Site Activities:

1. As a class, discuss butterflies and how they need certain environmental conditions to survive.
2. Make a poster of a butterfly and label its parts.
3. Do an art project or color a picture of a butterfly. (Use the research from pre-site #4 to help the students if needed)
4. Compare two different butterflies and how each survives in the wild. (Use the research from

presite #4 to help the students if needed)

5. Class Project: Complete four of the following:

- Create a new butterfly farm that you have bought for raising butterflies and public touring. This could be modeled after a Boone Hall, Cypress Gardens or any other Butterfly Facility. Some questions to answer are:
 - What is it called?
 - Where is it located?
 - What important features does it have (buildings such as barns and a house, rivers, lakes)?
 - What species of butterflies do you keep?
- Design a brochure for your new butterfly farm.
- Sketch a picture of this new butterfly farm.
- Make a video commercial promoting visitation to your butterfly farm.
- Write a newspaper article as a reporter doing a story on the opening festivities of this new butterfly farm or write a story about raising butterflies.
- Create a radio jingle to draw visitors to the activities your butterfly farm provides (observing butterflies, raising plants to feed the butterflies, using butterflies for special events such as weddings, birthdays, etc.).

(Make a teacher/student-made rubric to grade projects. A helpful websites are:

<http://rubistar.4teachers.org/index.shtml> or http://www.teach-nology.com/web_tools/rubrics/general)

Want to Learn More?

Are you a Butterfly? By Judy Allen

Where Butterflies Grow by Joanne Ryder

The Beautiful Butterfly Book (Beautiful Bug) by Sue Unstead

Becoming Butterflies by Anne Rockwell

Butterflies by Karen Shapiro

Butterflies (Peterson Field Guide Color-In Books) by Robert Michael Pyle

Butterflies of the Carolinas by Jaret C. Daniels

Caterpillars (Peterson Field Guides) by Amy Bartlett Wright