

#### PLT HYBRID TRAINING

**Project Learning Tree training first** offered to online students 2012 during SFA campus visit days

**3 hours face-to-face 3 hours online via** Hike Through the **PK-8** Environmental Activity Guide



Butterfly Lifecycle



Have Seed Will Travel



The Life of Bees



# COLLABORATIVE

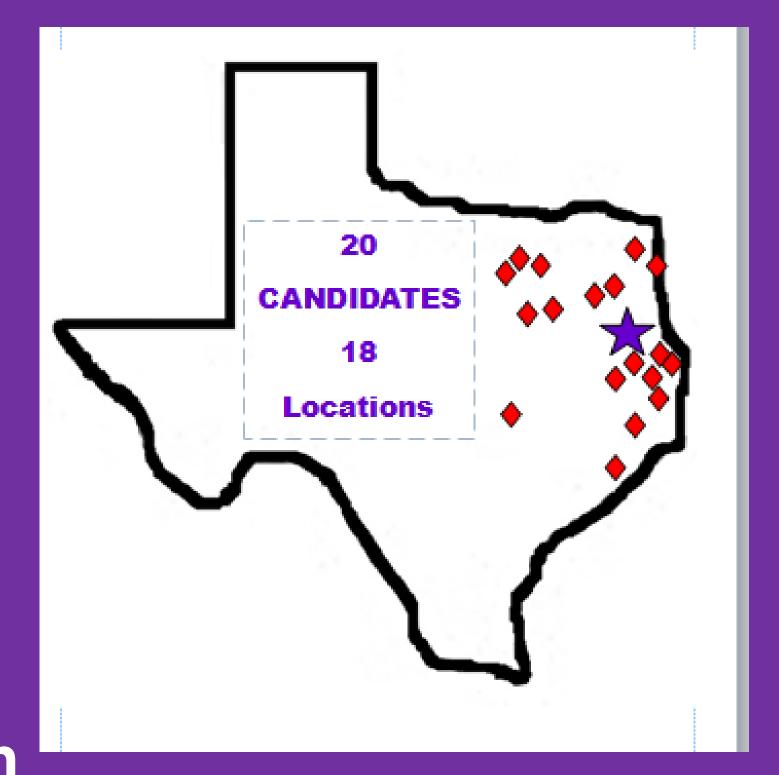
Spring 2015 BBBB Teaching Stations
Station 1 - Plants "How Plants Grow" (PLT, page 179) *chickpan demonstration "Tree Life Cycle" (PLT, page 341) *plant personification "Have Seeds Will Travel" (PLT, page 183)
Concepts: Plant needs, plant lifecycles, parts of plants/functions, and classification.
Station 2 – "Birds & Worms" - Animal Adaptations "Birds & Worms" (PLT, page 111)
Concepts: adaptations, camouflage, graphing, and interaction between living things.
Station 3 – Butterfly Life Cycle Activity adapted from PLT activity "To Be A Tree" (PLT, page 265) Dress teacher as a butterfly).
Concepts: Insect parts/functions, lifecycle, interactions between living organisms, migration and adaptations.
Station 4 – Importance of Bee Students will observe a live bee hive and determine the importance bees play in pollination; also covered will be the interdependence between plants and animals; and Fun Facts about Bees and the Bee Relay Race.
Concepts: Insect parts/function, interactions between living and non-living, lifecycles, interdependence, and adaptations.

**Online Methods Course • Teams of Two 5E Lesson Plans** • Modified PLT Curriculum

## ENGAGING THE ONLINE LEARNER THROUGH OUTDOOR FIELD EXPERIENCES Paula Griffin, Ed.D & Alan Sowards, Ed.D

## **ONLINE TEACHER CANDIDATES**

Arlington Batson Caddo Mills Chester Cleburne Cypress Dayton DeBerry Georgetown



#### **IMPLEMENTATION**

#### Teaching





## Growing

Bugs, Butterflies, Bees & Blossoms **Began in 1998 on SFA campus 5 Day Outdoor Science Education Event** 3,200 Area Students K-2, Teachers, & Parents

Greenville Hemphill Houston Huntington Keller Lufkin Marshall Shelbyville Waxahachie





#### Learning





**Teacher Candidate Comments** "...opportunity to put what we've learned into practice and receive feedback..." "...invaluable hands-on experience and first-hand knowledge..." "Through BBBB I realized how much students love to be a part of the lesson." "I learned I am a very capable teacher."



### COMMUNITY PARTNERSHIPS

SFA Mast Arboretum **Pineywoods Beekeepers Association Keep Nacogdoches Beautiful Texas Forest Service** 

#### REFLECTION

End of Day Focus Groups **Describe today.** What did you notice? How did you modify? Think about your pedagogy. Tell me about your learning.

