

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

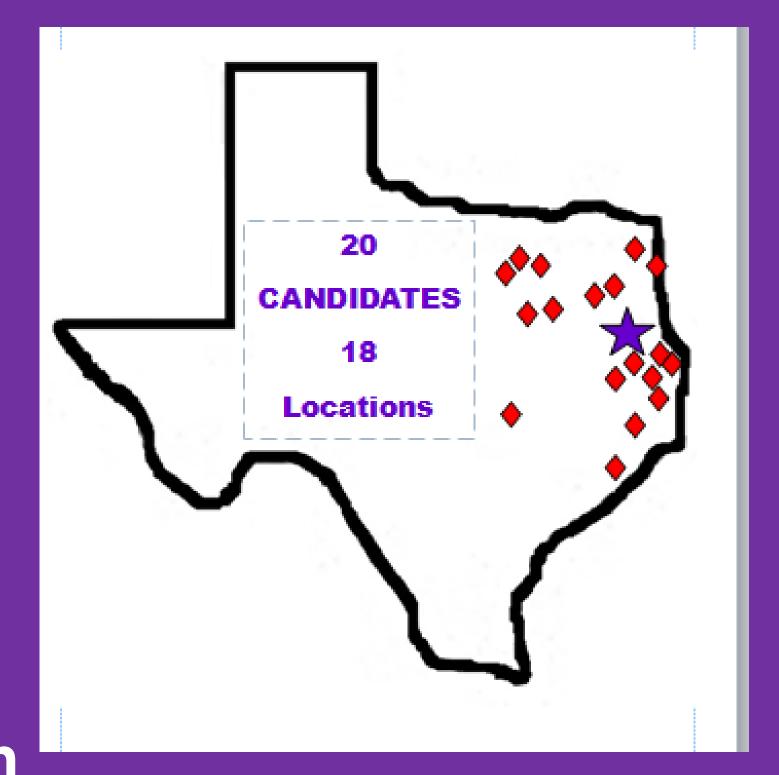
| Spring 2015 BBBB Teaching Stations |
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| Station 1 - Plants "How Plants Grow" (PLT, page 179) *chickpan demonstration "Tree Life Cycle" (PLT, page 341) *plant personification "Have Seeds Will Travel" (PLT, page 183) |
| Concepts: Plant needs, plant 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.

