4-H Science in Urban Communities
Promising Practices for 4-H Science in Urban Communities – 2 of 2

Project Overview

Project Director - Chad Ripberger
County 4-H Agent, CEDH
Cooperative Extension of Mercer County
TRENTON, NEW JERSEY
VIDEO SEGMENT: STAFFING WITH TEENAGERS & TEENS AS CROSS-AGE TEACHERS
HOW WE DID IT

• 4-H professionals nominated by SPL and science liaisons
• Each self-identified strengths in content areas
• Provided description, promising practices, and challenges in each of top 5 content areas
• Compiled info for each content area
• Conference calls in each content area
• Review
# The Contributors

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Section 1: 4-H Science Core Principles

- 4-H Science Program Design – 4-H Science Checklist
- Inquiry Based Learning Approaches
- Providing Youth Authentic Opportunities to Practice and Share Science Abilities
- Training Others to Deliver Science Programs
SECTION 2: PARTNERSHIPS

• Afterschool Providers
• Summer Program Providers
• City Government & City Parks and Recreation
• Universities & Campus-Based Scientists
• Science Centers & Museums
• State Level Practices to Advance Urban Programming

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SECTION 3: STAFFING, RECOGNITION, MARKETING

- Content Rich Volunteers
- AmeriCorps Members
- Teenagers as Teachers
- Recognizing Youth & Showcasing Efforts
- Marketing & Branding 4-H Science in Urban Communities
WEBSITE AND PUBLICATION

- http://urban4hscience.rutgers.edu
- Available May 31, 2011
Promising Practices Manual

View the Manual

Download the PDF version (1.8 MB)

Eighteen 4-H Youth Development professionals from across the country contributed to the development of this guide of promising practices for 4-H Science in Urban Communities as part of a National 4-H initiative funded by the Noyce Foundation. The guide includes promising practices, case studies, and suggested resources in each of 15 content areas - all with a focus on expanding the quality and quantity of out-of-school science programming.
VIDEO SEGMENTS

• Introduction
• 4-H Science Program Design – 4-H Science Checklist
• Providing Youth Authentic Opportunities to Practice & Share Science Abilities
• Training Others to Deliver Quality Science Programs
• Partnering with Afterschool Providers
• Staffing with Teenagers & Teens as Cross-age Teachers
4-H Science in Urban Communities

Staffing with Content Rich Volunteers

Danielle D. Rudolph
Urban Regional Extension Agent
Montgomery, Alabama
The *2010 Teens and Tweens Empowerment Conference (TNT)* is the annual event for the Teens Making Impact (TMI) Extension team project. The TMI program promotes positive youth development by focusing on life coping skills, career education, communication, healthy lifestyles and civic engagement.
More than 160 youths and adults participated in the event packed with educational and fun-filled activities.

Themed "Exploring Health and Fitness, Science, Engineering and Technology," the conference began with the Science, Engineering and Technology Expo.
Conference workshops included an introductory study of forensic science and engineering.

SET sessions that were presented included:

- DNA Extraction
- Fingerprint Analysis
- Forensic Science Defined
- Exploring Engineering
Exhibits and mini workshops were led by staff members of:

- Alabama Department of Forensic Sciences
- Alabama Science in Motion
- Defense Intelligence Agency
- Faculty and Staff from Alabama A&M University
  - Department of Family and Consumer Sciences
  - Department of Forestry
  - Departments of Physics and Chemistry
- NASA's Marshall Space Flight Center
- Unmanned Aircraft System in Huntsville
Assistant professor in the Forestry, Ecology, and Wildlife Program (FEWP), spoke with students on the study of Forest Management, Forest Sciences, Wildlife Biology, Fisheries, and Remote Sensing/GIS.
Promising Practices for 4-H Science in Urban Communities 2 of 2
Marshall Space Flight Center provided information to encourage young people to consider careers in engineering and the aerospace industry. Their goal is to develop the next generation of explorers.
INVENTOR DR. FRANK ARCHER III

• Inventor - Dr. Frank Archer III displayed invention
  – A microwave autonomous copter system
  – World’s first unmanned aircraft system equipped & flown successfully w/microwave radiometer sensor.
• Dr. Archer is interim director for Institutional Planning, Research and Evaluation at AAMU.
INVENTOR DR. FRANK ARCHER III

Interacting with students at 4-H Science Career Expo

PROMISING PRACTICES FOR 4-H SCIENCE IN URBAN COMMUNITIES 2 OF 2
• Dr. Malinda Westbrook, assistant professor of Chemistry at Alabama A&M University.
• Conducted a workshop on fingerprint analysis with youth participants.
DR. MALINDA WESTBROOK

PROMISING PRACTICES FOR 4-H SCIENCE IN URBAN COMMUNITIES
Ms. Jennifer Hutchison
DNA Extraction

Biology Specialist
Alabama Science in Motion
Alabama A&M University

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DNA EXTRactions

Promising Practices for 4-H Science in Urban Communities 2 of 2
• Have a well planned program.
• Connect your mission to the volunteer’s personal /organization mission.
• Recruit people who are content-rich, but who also like children.
PROMISING PRACTICES

• Use existing content-rich volunteers to recruit new ones.
• Inform volunteers of benefits of their contribution.
• Recognize and reward facilitators.
4-H Science in Urban Communities

Staffing with Teenagers & Teens as Cross-Age Teachers

Steve Wagoner, M. S.
Metro Youth Development Educator
East St. Louis, Illinois

University of Illinois Extension
PROMISING PRACTICES: #1

Consider content and context.
PROMISING PRACTICES: #2

Recruit the right teen.
Assess teens interested in becoming program partners.
Provide lesson planning tools.
Promising Practices: #5

Locate authentic opportunities to practice!
Plan for the unexpected.
Provide support.
Help teens reflect and evaluate.
PROMISING PRACTICES: #8

Help teens reflect and evaluate.
4-H Science in Urban Communities

RECOGNIZING YOUTH & SHOWCASING PROGRAMMATIC EFFORTS

Danielle D. Rudolph
Urban Regional Extension Agent
MONTGOMERY, ALABAMA
• Include recognition activities in program plans
• Use a variety of ways to acknowledge accomplishments
• Invite key stakeholders to recognition
• Recognize successes in an appropriate amount of time after completion of project.
• Be sure recognition type is fitting for level of commitment and services rendered.
LEADERSHIP RETREAT

• As incentive for long term participation in a youth development program, ACES Urban Affairs unit hosts a leadership retreat at the local 4-H Center each year.

• The retreat is designed to:
  – Recognize program accomplishments,
  – Provide an overall program assessment, and
  – Encourage and enhance development of leadership skills among teens and adults as partners in providing curriculum education.

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PROMISING PRACTICES FOR 4-H SCIENCE IN URBAN COMMUNITIES 2 OF 2
LEADERSHIP RETREAT

• Teens & adults engage in leadership building skill activities, and
  – Have opportunities to reflect on program information
  – Each center prepares presentation highlighting work completed in their community.
• Program directors and motivational speaker express gratitude for success and encourage youth to continue hard work.
• Teens & adults are recognized and receive certificate of appreciation.

PROMISING PRACTICES FOR 4-H SCIENCE IN URBAN COMMUNITIES 2 OF 2
PROMISING PRACTICES FOR 4-H SCIENCE IN URBAN COMMUNITIES 2 OF 2
• Teens and adults representing their respective Urban Centers make presentations on the successes and challenges of implementing the curriculum within their program areas.
• Youth present skits, dances, slideshows, and testimonials.
TEAM GAMES

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TNT Awards Breakfast

- Closing conference activities include an awards breakfast.
- Youth greeted and commended for active participation in Teens Making Impact Program & Teens and Tweens Empowerment Conference.
- Semi-formal attire - youth are guests of honor.
TNT Awards Breakfast

Promising Practices for 4-H Science in Urban Communities 2 of 2
VIP RECEPTION

• All volunteers receive recognition at the state level program for ACES Urban volunteers.
• The VIP Awards Luncheon is held in regions throughout the state.
• Youth participants attend this event as well.
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VIP Reception

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VIP RECEPTION

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4-H Science in Urban Communities

Marketing & Branding 4-H in Urban Communities

Steve Wagoner, M. S.
Metro Youth Development Educator
EAST ST. LOUIS, ILLINOIS
Develop a written personal philosophy.
Locate partners with similar philosophy and goals.
PROMISING PRACTICES: #3

Understand cultural beliefs and honor them.
PROMISING PRACTICES: #4

Agree on signage and recognition.
PROMISING PRACTICES: #5

Share the road.

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PROMISING PRACTICES: #6

Know when to walk away.
PROMISING PRACTICES: #6

Know when to walk away.
Brought to you by 4-H

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