Evolving Towards Your Audience

USING STUDENT TEST DATA AND TEACHER FEEDBACK TO IMPROVE ENVIRONMENTAL EDUCATION PROGRAMMING

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Colorado River Alliance
The Burning Questions

- How do you know if your program is effective?
- How do you identify areas to improve and illustrate that to peers?
Presentation Outline

- Overview of YES Program
- How we collect data
- Methods to analyze data
- Results
- Challenges & Actions
- Questions
YES Program Overview

Youth Experience
Stewardship (YES)
Watershed Station
Watershed Station
Water Cycle Station
Data Collection

What do YOU know?

1. Where does your drinking water come from?
   a. Edwards Aquifer
   b. Colorado River
   c. Brazos River
   d. I don’t know

2. Do humans reuse the same water over time?
   a. Yes
   b. No
   c. I don’t know

3. What are 3 examples of pollution that impact our waterways?
   - Trash in water
   - Batter in water
   - Old good water

Colorado River Station
1. The presenter was knowledgeable in his/her field. 5 4 3 2 1
2. The information was presented in an appropriate manner. 5 4 3 2 1
3. The material and activities were grade level appropriate. 5 4 3 2 1
4. The presenter was useful and helpful. 5 4 3 2 1
Comments about this station: ________________________________

Conservation Station
1. The presenter was knowledgeable in his/her field. 5 4 3 2 1
2. The information was presented in an appropriate manner. 5 4 3 2 1
3. The material and activities were grade level appropriate. 5 4 3 2 1
4. The presenter was useful and helpful. 5 4 3 2 1
Comments about this station: ________________________________

Please continue on the other side.

COLORADO RIVER ALLIANCE
## Analysis

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COLORADO RIVER ALLIANCE
Overall Student Test Scores
Pollution Pre, Post Test Data

Average Q3 Score (% Correct)

Pre-Test  |  Post-Test
-----------------  -----------------
|   |   |

Title 1 Status

3. What are 3 examples of pollution that impact our waterways?
- Oil
- Chemicals
- Sewer runoff
- Fertilizer
Pollution Pre-Test

Non-Title 1

Title 1
Pollution Data

Pre-Test
- Trash
- Oil
- Beverage Containers
- Industrial Gas
- Chemicals Animal
- Other

Post-Test
- Trash
- Oil
- Waste
- Fertilizer
- Chemicals
- Other
- Other
- Other
- Other
- Other
- Other
- Other

COLORADO RIVER ALLIANCE
Teacher Evaluations: Watershed Station

- Q1: The presenter was knowledgeable, friendly and helpful.
- Q2: The information was presented in an appropriate manner.
- Q3: The materials and activities were grade level appropriate.
- Q4: The station covered important TEKS/science content.
Teacher Evaluations: Watershed Station

“The activity with the model was a real eye opener for our kids to see how much of an effect we have on our water.”

“Non-point and point source only shown on poster. Kids didn't really get it. Need to connect to activity sooner.”

“Teacher was geared to older kids. Needs to engage students. Very knowledgeable, not well tempered for younger kids. Material was grade appropriate, just not presented in a manner they could follow.”
Challenges & Actions

➢ “Trash is the primary pollutant”
  ◦ Introduced 3 primary sources

➢ Different learning styles
  ◦ Title 1 v. Non-title 1

➢ Program is Volunteer driven
  ◦ Training, observations, & coaching
Thank You!

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