

FY2016 4-H Youth Development Impact Enlightening Youth to STEM Opportunities

Clark County

Total 4-H Program Overview

4-H Members	261
4-H Clubs	9
4-H Volunteers	77
Value of Volunteer Hours	\$51,361.00

Highlights

Increased Knowledge	96%
Increased Decision Making Skills	98%
Applied Science Principle	84%
Enhanced Technology Skills	87%
Develop Life Skills	99%
4-H STEM Programs Conducted	119

"This was a really good program, and I strongly recommend it." - Gurdon 6th grader



Gurdon 5th graders learning how to code at their own pace.

Relevance

In today's global market, students need to excel in both math and science to compete world-wide as engineers, scientists, physicians and creative entrepreneurs. However, in an assessment by the Organization for Economic Cooperation and Development, teens in the U.S. placed 25th & 21st in math and science out of 30 countries.

Response

Hands-on learning is the essence of 4-H. With that in mind, six monthly engineering activities featuring the Junk Drawer Robotics Curriculum, six monthly science technology activities and six monthly computer coding activities featuring the Hour of Code and other hands-on curriculum were conducted with 107 students in the 5th and 6th grade at Gurdon and 144 students in the 6th grade at Arkadelphia. Students worked in teams during the engineering and science technology activities and individually during coding exercises.

Results

A year-end evaluation of the in-school programs was conducted to determine the effectiveness of the programming. 96% of the students indicated an interest, engagement and positive attitudes towards science as a result of the 4-H activities. 84% reported being able to apply science skills and abilities because of the 4-H programming. Of the students participating in the engineering lessons, 40% increased their knowledge of engineering principals, and 41% expressed interest in an engineering career. Of the students participating in the coding activities: 87% reported increased knowledge in coding, and 45% expressed interest in a computer science career.

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