



2013 Camden County 4-H

250 Members learning life skills

4-H in Camden County:

- Over 200 volunteers, over 6000 volunteer hours
- 40 partners, over 400 partner hours
- 2195 youth and adult contacts

4-H Afterschool Clubs:

- Hurricane Deck 4-H Club (2nd-4th grades)
- Hawthorne 4-H Clubs (3rd-4th grades)
- 4-H LASER – FIRST Robotics Club (Camdenton High School)
- Camdenton Middle School Robotics
- Oakridge Robotics
- Hawthorn Robotics
- Osage Beach Robotics
- Youth EXCEL (Experience in Community Enterprise and Leadership)

4-H Community Clubs:

- Gallup 4-H Club-Macks Creek
- Wrangler 4-H Club-Roach/Camdenton
- Denim and Dust-Climax Springs
- Easy Riders-Lake Ozark/Decaturville
- Drive 4-H-Stoutland

America faces a future of intense global competition with a startling shortage of scientists. In fact, only 18 percent of U.S. high school seniors are proficient in science (NAEP 2005) and a mere 5 percent of current U.S. college graduates earn science, engineering, or technology degrees compared to 66 percent in Japan and 59 percent in China.

To address increased demand for science and technology professionals, 4-H is working to reach a bold goal of engaging one million new young people in science programs by 2013. Currently, 4-H Science programs reach more than 5 million youth with hands-on learning experiences to ensure global competitiveness and prepare the next generation of science, engineering, and technology leaders.

4-H's approach is comprehensive and holistic—from agriculture to climate change to alternative energy—youth are learning about highly relevant complex systems and issues that will ensure their contributions to their communities today and their success as global leaders tomorrow.

- ◆ Environmental Science and Environmental Energy
- ◆ Engineering and Technology- Robotics, Film Making, GPS/GIS
- ◆ Plant and Animal Sciences

Six session class designed to bring Science concepts Alive with a hands-on approach. Topics include:

- ◆ Eco-Bots
- ◆ Agri-Science
- ◆ Sound Science- making speakers from paper, copper wire and magnets
- ◆ Salicylate Sleuths- Pharmacy Investigations
- ◆ Rockets Away
- ◆ Mousetraps in Motion- Designing cars using kinetic energy



NEW FOR 2013



Sponsored by the Office of Naval Research (ONR)
Managed by The AUVSI Foundation



SeaPerch is an innovative underwater robotics program that teaches 4-H members how to build an underwater Remotely Operated Vehicle (ROV). Building a SeaPerch ROV teaches basic skills in ship and submarine design and encourages campers to explore naval architecture and marine and ocean engineering concepts. After the SeaPerch robot is constructed, members are encouraged to test their vehicles, deploy them on missions, and compete in a culminating event, the SeaPerch Challenge - a one-day local competition, to take what they have learned to the next level. Michele Kroll, received a grant from AUVSI to pilot the program in the county. SEARERCH meets the national learning outcomes for science and supports STEM programming.

4-H Youth EXCEL (Experiencing community enterprise and leadership)



Youth EXCEL provides an immersed experience for middle school students to learn positive leadership skills to work with adults and peers in the community. Participants reported in the post-test that as a result of their participation they gained skills in decision making, taking initiative to make positive change, effective communication skills, healthy life style choices and self responsibility.

"Youth EXCEL has taught me to stand up for what I believe in." - 2012 graduate

"Youth EXCEL has taught me how to get along with people that are different from me." - 2012 graduate

* Over 100 Youth EXCEL Alumni- 12 years in the making



90 Students participate in 4-H Afterschool getting hands on training as future scientists!

150 Youth participate in 4-H Robotics!

Dry Ice Investigations!

Funded by Camdenton R-III Afterschool Services



Camdenton 4-H LASER winning Regionals in St. Louis to attend World's for the third time!



Each year 64 youth participate in 4-H Summer Camp at Windermere. Young people learn independence, responsibility, decision-making skills and how to get along with others at 4-H Summer Camp! Making friends and learning in an outdoor classroom is a favorite memory for many 4-Her's. 4-H Teen counselors gain new leadership skills in being mentors for younger campers as well as plan and

implement camp workshops and recreation.

Other Camp Opportunities:

- ◆ Summers @ MIZZOU (for youth 12 and older)
- ◆ Missouri S&T Aerospace 4-H Camp (ages 10-12)
- ◆ Day camps: Kids in the Kitchen with FNEP, Sportsfishing, Photography, Aqua Robotics, and more!

JOIN | THE REVOLUTION  OF RESPONSIBILITY

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