Each county will send a youth-adult team to attend the STEM institute training to participate in research and address community issues and projects relevant to youth development. After attending, each team will return to their county to complete their project. Once finished, 4-H youth will create awareness about their selected issue through educational outreach. Robotics teams will compete in the First LEGO League. Youth will see firsthand how their efforts have impacted society and initiated change within the community.

Youth-adult partnerships are a fostered relationship between youth and adults.

- equal potential in making decisions
- utilizing skills
- mutual learning
- promoting change through civic engagement
- program planning and/or community development

STEM Institute Training
June 29-30, 2010
For registration info, visit: http://oklahoma4h.okstate.edu/
GPS

Teams will utilize Geographic Information Systems (GIS) and Global Positioning Systems (GPS) to launch local “community mapping” projects that provide graphical maps to improve public understanding of community situations. Maps can improve the local community’s social, economic, and environmental conditions.

iGreen

Teams will conduct a needs assessment and develop a plan to address a local environmental issue.
- recycling/waste management
- environmental conservation
- alternative energy sources
  - water conservation
  - community gardening

Robotics

The First LEGO League encourages youth to investigate real obstacles facing today’s scientists. Teams will design, assemble, and program robots using LEGO technology.

Digital Photography

Teams will delve into digital photography through hands-on learning.
- 4-H’ers will learn the basics as well as hone their photography skills.
- Digital photography skills covered will include lighting, flash, and taking and editing digital photos.
- 4-H’ers share their work with their club.

Videography

4-H’ers will explore the world of filmmaking and gain the skills and techniques to create movies and explore career opportunities within the field of filmmaking. Teams will develop a film geared toward Science, Engineering, and Technology (SET) curriculum.