



Science, Engineering & Technology

4-H SET Checklist

To meet the needs of children, youth and the nation with high-quality science, engineering and technology



Are you providing science, engineering and technology programs based on National Science Education Standards?

Science education standards are criteria to judge quality: the quality of what young people know and are able to do; the quality of the science programs that provide the opportunity for children and youth to learn science; the quality of science teaching; the quality of the system that supports science leaders and programs; and the quality of assessment practices and policies.

Learn more at: http://www.nap.edu/catalog.php?record_id=4962#toc



Are you providing children and youth opportunities to improve their SET Abilities?

Predict, Hypothesize, Evaluate, State a Problem, Research Problem, Test, Problem Solve Design Solutions, Measure, Collect Data, Draw/Design, Build/Construct, Use Tools, Observe, Communicate, Organize, Infer, Question, Plan Investigation, Summarize/Relate, Invent/Implement Solutions, Interpret/Analyze/Reason, Categorize/Order/Classify, Model/Graph/Use Numbers, Troubleshoot, Redesign, Optimize, Collaborate, Compare



Are you providing opportunities for youth to experience and improve in the Essential Elements of Positive Youth Development?

Do youth get a chance at **mastery** – addressing and overcoming life challenges in your programs?

Do youth cultivate **independence** and an opportunity to see oneself as an active participant in the future?

Do youth develop a sense of **belonging** within a positive group?

Do youth learn to share a spirit of **generosity** toward others?



Are learning experiences led by trained, caring adult staff and volunteers acting as mentors, coaches, facilitators and co-learners who operate from a perspective that youth are partners and resources in their own development?



Are activities led with a hands-on, experiential approach to learning using inquiry to foster the natural creativity and curiosity of youth?