SMALL ENGINES - Members 14 years of age and older may apply for a Mechanical and Engineering Science Achievement Record Award.

Project # and Name	*Skill Level, Age Time Commitment*	*Project Requirements for Completion, Project Judging and Fair*	*4-H Competitive and Educational Opportunities*
541 Crank It Up **542 Warm It Up** **543 Tune It Up** **544 Ready Set Mow** **Advisor's Guide** ***544G Small Engine's Helper Guide*** is recommended for volunteers working with a group of members enrolled with small engine projects.	Beginner skill level for youth of all ages Intermediate skill level for youth of all ages Advanced skill level for youth of all ages Advanced skill level for youth of all ages 1 to 3 months Project Work Time.	♦ Complete at least 7 activities each year in the main activities or Race ahead sections and all tasks outlined in the project book guidelines. **Miscellaneous Project Judging Requirements:** ♦ **Project Book:** Bring to judging your completed project book. ♦ **Educational Display:** Create and bring an educational display on a topic from the project experience. Display must be less than 48" wide, 24" deep, and 36" tall. ♦ **Project Interview:** Answer questions about your project experience including general 4-H knowledge, project book knowledge and activities and educational display. ♦ **State Fair Selection:** One member may be selected to participate from each project. No member may be selected in more than one **ATV safety, bicycles,** rockets, robotics, science fun, young engineers, **microscope mysteries**, not just knots, small engines, ready set mow, **paper circuits**, **smart circuits**, or self-det. STEM projects. **County Fair Exhibit Requirements:** ♦ **Fair Exhibit:** Bring your educational exhibit to display.	**County Events** ***4-H Miscellaneous Judging*** Tue., July 14, 3 PM-7 PM, Fgrds., Annex **Clark Co. Fair - Youth Bldg.** ***4-H Project Exhibit*** Club Booth in Youth Bldg. **Thurs., July 23, 3 PM-9 PM** **Fri., July 24, 9 AM - Noon** ***4-H Winner's Revue:*** Tue., July 28, 7 PM, Entertainment Tent **Ohio State Fair** ***4-H STEM Project Judging Day:*** Sat., Aug. 1, Lausche Youth Exploration Space

TRACTOR & MACHINERY OPERATIONS - Members 14 years of age and older may apply for a Mechanical & Engineering Science Achievement Record

Project # and Name	*Skill Level, Age Time Commitment*	*Project Requirements for Completion, Project Judging and Fair*	*4-H Competitive and Educational Opportunities*
552 Tractor 2: Gearing Up Safety **553 Tractor 3: Moving Out** **554 Tractor 4: Learning More** **Required Supplement for members age 13 and up** **561 National Safe Tractor and Machinery Operation Student Manual** **Repeating Project:** May be repeated with member taking on new challenges.	Ages 9 to 18, skill level progresses with project level 1 to 3 months Project Work Time.	♦ Read and complete all tasks as outlined in the project book. ♦ Participate in a training course, if offered and meet age requirements. ♦ Pass written and driving exams from training course, if offered. (13 and older). **Miscellaneous Project Judging Requirements:** ♦ **Project Book:** Bring to judging your completed project book. ♦ **Educational Display:** Create and bring an educational display on a topic from the project experience. ♦ **Project Interview:** Answer questions about your project experience including general 4-H knowledge, project book knowledge and activities and educational display. **County Fair Exhibit Requirements:** ♦ **Fair Exhibit:** Bring your educational exhibit to display in your club's 4-H booth in the Youth Building.	**County Events** ***4-H Miscellaneous Judging*** Tue., July 14, 3 PM-7 PM, Fgrds., Annex **Clark Co. Fair - Youth Bldg.** ***4-H Project Exhibit*** Club Booth in Youth Bldg. **Thurs., July 23, 3 PM-9 PM** **Fri., July 24, 9 AM - Noon** ***4-H Winner's Revue:*** Tue., July 28, 7 PM, Entertainment Tent **NO STATE FAIR SELECTIONS!**