SAE Project Ideas For High School

Checkout SAE (Supervised Agricultural Experience) project ideas for high school students:

Animal Systems:

- 1. Goat milk soap business
- 2. Backyard chicken egg production
- 3. Bee pollination service startup
- 4. Rabbit meat farming venture
- 5. Fish breeding for aquariums
- 6. Sheep wool clothing line
- 7. Alpaca fiber processing enterprise
- 8. Duck egg gourmet food
- 9. Quail farming for restaurants
- 10. Pet sitting service launch
- 11. Horse training for beginners
- 12. Cattle embryo transfer program
- 13. Pig waste to biogas
- 14. Deer antler velvet production
- 15. Turkey Heritage Breed Preservation
- 16. Miniature donkey therapy animals
- 17. Llama trekking adventure tours
- 18. Ostrich leather goods creation
- 19. Silkworm cultivation for fabric
- 20. Mealworm protein powder production

Plant Systems:

- 21. Vertical hydroponic lettuce farm
- 22. Microgreens for local restaurants
- 23. Heirloom tomato seed saving
- 24. Mushroom logs inoculation business
- 25. Herb garden subscription boxes
- 26. Fruit tree grafting service
- 27. Pumpkin Maze agritourism venture
- 28. Flower bouquet delivery startup
- 29. Rooftop vegetable garden installation
- 30. Aquaponics tilapia and basil
- 31. Succulent propagation and sales
- 32. Bamboo farming for construction
- 33. Lavender essential oil distillation
- 34. Orchard pollination drone service
- 35. Carnivorous plant nursery business
- 36. Hops growing for breweries
- 37. Ginseng cultivation in forests
- 38. Hay bale gardening workshops

- 39. Cactus fruit jam production
- 40. Bonsai tree shaping classes

Environmental Systems:

- 41. Rainwater harvesting system design
- 42. Composting service for neighborhoods
- 43. Solar-powered irrigation set up business
- 44. Wetland restoration project management
- 45. Wind energy site assessment
- 46. Soil erosion prevention techniques
- 47. Native plant restoration program
- 48. Eco-friendly pest control service
- 49. Biodegradable mulch production venture
- 50. Green Roof Installation Company
- 51. Waste oil to biodiesel
- 52. Algae-based water purification system
- 53. Invasive species removal service
- 54. Drought-resistant landscaping business
- 55. Vermicomposting bins for schools
- 56. Upcycled garden art creation
- 57. Wildlife Corridor planning service
- 58. Biochar production from waste
- 59. Phytoremediation for polluted sites
- 60. Passive solar greenhouse design

Food Products and Processing:

- 61. Fruit leather snack production
- 62. Artisanal cheese-making classes
- 63. Fermented vegetable product line
- 64. Honey infusion flavor experiments
- 65. Gluten-free baking mix business
- 66. Dehydrated camping meals startup
- 67. Herbal tea blend creation
- 68. Gourmet pet treat bakery
- 69. Flavored popcorn kernel varieties
- 70. Fruit preserves gift baskets
- 71. Spice blend subscription service
- 72. Nut milk production facility
- 73. Vegetable chips manufacturing process
- 74. Gourmet salt infusion business
- 75. Fruit-based natural food coloring
- 76. Edible insect protein bar
- 77. Cold-pressed juice delivery service
- 78. Vegan cheese alternative development
- 79. Probiotic vegetable pickle production
- 80. Maple syrup flavor infusions

Natural Resources:

- 81. Sustainable forestry management plan
- 82. Wildlife habitat improvement service
- 83. Groundwater recharge area protection
- 84. Native seed collection business
- 85. Firewood seasoning and delivery
- 86. Fishing lure from recycled materials
- 87. Eco-tourism guide training program
- 88. Trail building and maintenance
- 89. Nest box construction service
- 90. Wildflower meadow installation business
- 91. Butterfly Garden design service
- 92. Riparian buffer planting program
- 93. Edible forest garden planning
- 94. Christmas tree farm startup
- 95. Foraging walks and workshops
- 96. Natural dye from local plants
- 97. Bat house building service
- 98. Beekeeping equipment rental business
- 99. Soil testing and amendment
- 100. Integrated pest management consulting

Power, Structural, and Technical Systems:

- 101. Drone crop monitoring service
- 102. Farm equipment repair business
- 103. Precision agriculture data analysis
- 104. Small-scale wind turbine installation
- 105. Farm building design service
- 106. GPS livestock tracking system
- 107. Robotic milking system maintenance
- 108. Farm safety equipment sales
- 109. Aquaponics system design service
- 110. Greenhouse automation control systems
- 111. Farm tool-sharing app
- 112. Tractor GPS guidance installation
- 113. Alternative energy feasibility studies
- 114. Farm equipment 3D printing
- 115. Livestock scale calibration service
- 116. Weather station network setup
- 117. Farm security system installation
- 118. Irrigation system efficiency audits
- 119. Farm vehicle electric conversion
- 120. Grain storage monitoring technology

Agribusiness:

- 121. Farm-to-table app development
- 122. Social media for farmers
- 123. Community-supported agriculture management
- 124. Farm financial planning service
- 125. Agricultural grant writing assistance
- 126. Farmers' market booth design
- 127. Farm logo and branding
- 128. Agritourism marketing consultancy
- 129. Farm succession planning service
- 130. Value-added product development
- 131. Farm equipment leasing business
- 132. Agricultural land real estate
- 133. Crop insurance education workshops
- 134. Farm-to-school program coordinator
- 135. Precision ag software training
- 136. Farm labor hiring service
- 137. Direct marketing strategy consulting
- 138. Farm business plan writing
- 139. Agricultural Cooperative Formation assistance
- 140. Farm bookkeeping software development

Leadership Development:

- 141. Youth agriculture mentor program
- 142. Farm safety workshop series
- 143. Public speaking for farmers
- 144. Agricultural Policy Youth Summit
- 145. Farm stress management classes
- 146. Agricultural Career Exploration camp
- 147. Farm succession leadership training
- 148. Food system change workshops
- 149. Ag literacy program development
- 150. Farm innovation think tank
- 151. Rural entrepreneurship bootcamp
- 152. Farmer's market manager training
- 153. Farm to school ambassador
- 154. Agricultural debate team coaching
- 155. Farm financial literacy program
- 156. Sustainable Agriculture Youth Conference
- 157. Farm technology adoption workshops
- 158. Agricultural leadership podcast production
- 159. Farm crisis hotline volunteer
- 160. Young farmer networking events

Research:

- 161. Soil microbiome diversity study
- 162. Crop rotation impact analysis

- 163. Heritage livestock breed preservation
- 164. Pollinator habitat effectiveness research
- 165. Cover crop benefit quantification
- 166. Precision agriculture technology comparison
- 167. Farm energy use audit
- 168. Organic pest control trials
- 169. Climate change crop adaptation
- 170. Farm plastic recycling study
- 171. Livestock feed efficiency testing
- 172. Water conservation technique evaluation
- 173. Farm Biodiversity Impact Assessment
- 174. Food waste reduction strategies
- 175. Vertical farming yield analysis
- 176. Regenerative grazing practice study
- 177. Farm labor ergonomics research
- 178. Agricultural drone application trials
- 179. Soil carbon sequestration measurement
- 180. Farm-to-consumer supply chain analysis

Exploratory:

- 181. Insect farming for feed
- 182. Seaweed cultivation for food
- 183. Rooftop beekeeping in cities
- 184. Agroforestry system design service
- 185. Mycelium-based packaging production
- 186. Aquaculture in shipping containers
- 187. Edible landscaping design business
- 188. Precision fermentation protein production
- 189. Vertical farming in abandoned buildings
- 190. Cultured meat research assistant
- 191. Bioplastic from agricultural waste
- 192. Microalgae superfood powder production
- 193. Indoor cricket farming startup
- 194. Agrivoltaics system installation service
- 195. Plant-based leather alternative development
- 196. Robotic harvesting technology trials
- 197. Cellular agriculture lab technician
- 198. Food forest design app
- 199. Bioengineered crop trait research
- 200. Smart greenhouse control systems

Community Service:

- 201. School garden program coordinator
- 202. Food bank gleaning organizer
- 203. Community composting hub manager
- 204. Agriculture therapy program assistant

- 205. Urban fruit tree mapping
- 206. Seed library curator position
- 207. Farm animal sanctuary volunteer
- 208. Community kitchen garden planner
- 209. Agricultural Museum Docent program
- 210. Farmer Veteran Support network
- 211. Youth garden club leader
- 212. Farm food pantry coordinator
- 213. Community-supported fishery organizer
- 214. Peri-urban farm incubator manager
- 215. Ag in the classroom educator
- 216. Intergenerational Farming Mentorship program
- 217. Community seed-saving workshops
- 218. Farm to healthcare initiative
- 219. Agricultural waste upcycling classes
- 220. Rural community revitalization projects

Innovative:

- 221. Floating hydroponic garden barges
- 222. Subterranean mushroom farm tours
- 223. Agri-voltaic solar grazing service
- 224. Edible insect cooking classes
- 225. Rooftop rice paddy installations
- 226. Therapeutic horsemanship for veterans
- 227. Aquaponic koi and watercress farm
- 228. Goat Yoga Retreat Center
- 229. Virtual reality farm tours

SAE Project Ideas for Middle School:

- 1. Herb garden in recycled containers
- 2. Vermicomposting bin
- 3. Butterfly Garden
- 4. Backyard chicken coop (2-3 chickens)
- 5. Windowsill hydroponic lettuce system
- 6. Beehive observation frame
- 7. Microgreens growing station
- 8. Pollinator-friendly flower bed
- 9. Aquaponics set up with goldfish and herbs
- 10. Indoor mushroom growing kit

SAE Project Ideas for FFA:

- 11. Community farmers market booth
- 12. Soil testing service for local gardeners

- 13. Livestock showmanship and exhibition
- 14. Agricultural equipment repair and maintenance
- 15. Greenhouse management and plant propagation
- 16. Agritourism project (e.g., corn maze, pumpkin patch)
- 17. Value-added product development (e.g., homemade jams, cheeses)
- 18. Precision agriculture technology implementation
- 19. Small-scale organic vegetable production
- 20. Agricultural social media content creation and management

SAE Project Ideas with Animals:

- 21. Rabbit breeding and showing program
- 22. Goat milk soap production
- 23. Honey bee management and honey production
- 24. Poultry egg production and marketing
- 25. Fish farming in backyard ponds
- 26. Sheep wool processing and fiber arts
- 27. Cattle artificial insemination service
- 28. Dog grooming and training business
- 29. Pasture-raised heritage turkey production
- 30. Alpaca raising and fiber harvesting

SAE Project Ideas with Agriculture:

- 31. Vertical gardening systems for urban areas
- 32. Drought-resistant landscaping services
- 33. Fruit tree grafting and propagation
- 34. Composting and soil amendment production
- 35. Heirloom seed saving and distribution
- 36. Sustainable pest management consulting
- 37. Aquaponics system design and installation
- 38. Specialty crop production (e.g., hops, lavender, gourmet mushrooms)
- 39. Agroforestry implementation on small acreage
- 40. Agricultural waste upcycling (e.g., creating biochar or biodegradable planters)