

Agriscience Fair Project Ideas For High School

Here are the most useful Agriscience Fair Project Ideas for students:

Plant Science Projects

1. Study how music affects plant growth patterns
2. Compare organic vs. chemical fertilizers on tomato yield
3. Test different colored lights' impact on herb growth
4. Measure companion planting benefits between corn and beans
5. Study hydroponics systems using local water sources
6. Explore seed germination rates in various soil types
7. Test natural pest controls on garden vegetables
8. Measure drought resistance in native grass species
9. Study plant growth with recycled water systems
10. Compare vertical farming methods for leafy greens
11. Test coffee grounds as natural plant fertilizer
12. Study crop rotation effects on soil health
13. Measure plant responses to different pruning methods
14. Compare urban rooftop growing system effectiveness
15. Test natural weed control methods' effectiveness

Animal Science Projects

16. Study chicken egg production with different feeds
17. Compare bee behavior with various flower types
18. Measure dairy cow milk yield seasonal changes
19. Test natural supplements' effect on fish growth
20. Study sheep wool quality under different conditions
21. Compare rabbit breeding in various environments
22. Measure goat milk production with feed changes
23. Study horse behavior with different exercise patterns
24. Test natural parasite control in cattle
25. Compare pig growth rates using local feeds
26. Study duck behavior in different water conditions
27. Test turkey growth with varying light exposure
28. Measure quail egg production in different homes
29. Study fish behavior in aquaponics systems
30. Compare different bedding effects on animal health

Soil and Water Projects

31. Test rain garden filtration effectiveness
32. Compare soil erosion prevention techniques locally
33. Study water retention in different mulches
34. Measure groundwater quality near farms
35. Test natural water filtration systems

36. Compare composting methods for soil improvement
37. Study soil microbe activity in gardens
38. Measure nitrogen-fixing with cover crops
39. Test soil pH changes with amendments
40. Compare water conservation irrigation methods
41. Study soil compaction effects on roots
42. Test natural soil remediation techniques
43. Measure rainwater harvesting system efficiency
44. Study stream health near farming areas
45. Compare soil types for crop growth

Food Science Projects

46. Test natural food preservation methods
47. Compare home fermentation technique results
48. Study honey crystallization under conditions
49. Measure cheese aging process effects
50. Test herb drying preservation methods
51. Compare different yogurt culture effectiveness
52. Study fruit ripening with ethylene gas
53. Measure bread rising with natural yeast
54. Test food storage method effectiveness
55. Compare pickling methods for vegetables
56. Study apple varieties for sauce-making
57. Test maple sap collection techniques
58. Measure kombucha brewing variables' effects
59. Study meat curing with natural ingredients
60. Compare fruit dehydration methods results

Environmental Science Projects

61. Study butterfly garden plant effectiveness
62. Compare pollinator attraction to native flowers
63. Test windbreak designs for farm protection
64. Measure solar energy use in greenhouses.
65. Study beneficial insect habitat creation
66. Compare natural pest barrier effectiveness
67. Test green roof plant survival rates
68. Measure wildlife corridor use on farms
69. Study bird populations in different fields
70. Compare natural cooling system methods
71. Test farm waste recycling techniques
72. Measure biodiversity in field edges
73. Study wetland plant filtering ability
74. Compare different habitat restoration methods
75. Test natural mosquito control effectiveness

Agricultural Technology Projects

76. Study smartphone plant disease detection
77. Compare drone crop monitoring methods
78. Test automated watering system designs
79. Measure solar-powered farm tool effectiveness
80. Study weather station accuracy comparison
81. Compare greenhouse automation systems
82. Test soil moisture sensor types
83. Measure smart composting system effectiveness
84. Study livestock tracking device accuracy
85. Compare farm mapping tool results
86. Test temperature monitoring system designs
87. Measure wind energy pumping efficiency
88. Study automated feeding system effectiveness
89. Compare farm data collection methods
90. Test farm security system designs

Sustainable Agriculture Projects

91. Study urban farming space efficiency
92. Compare natural pest management systems
93. Test permaculture garden design effectiveness
94. Measure food forest production rates
95. Study greywater irrigation safety
96. Compare no-till farming method results
97. Test natural fertilizer combinations
98. Measure crop rotation benefits
99. Study companion planting effectiveness
100. Compare sustainable livestock grazing patterns
101. Test native plant adaptation methods
102. Measure biodiversity in farming systems
103. Study natural soil building techniques
104. Compare water conservation farming methods
105. Test organic pest control effectiveness

Agricultural Economics Projects

106. Study farmer's market pricing strategies
107. Compare direct marketing method results
108. Test value-added product effectiveness
109. Measure community-supported agriculture benefits
110. Study farm stand location effects
111. Compare organic certification cost benefits
112. Test farm tourism activity success
113. Measure local food system impacts
114. Study farm cooperative effectiveness
115. Compare farm subscription service results

116. Test agricultural product packaging impact
117. Measure farm labor efficiency methods
118. Study farm diversification benefits
119. Compare farm insurance option effects
120. Test farm business model success

Biotechnology Projects

121. Study plant tissue culture methods
122. Compare natural selection breeding results
123. Test beneficial microorganism effectiveness
124. Measure probiotic production methods
125. Study mushroom cultivation techniques
126. Compare seed-saving method results
127. Test plant propagation effectiveness
128. Measure bacterial culture growth
129. Study enzyme production methods
130. Compare natural genetic selection results
131. Test biological pest control effectiveness
132. Measure microbial soil enhancement
133. Study natural fermentation processes
134. Compare plant grafting technique results
135. Test beneficial fungi growing methods
136. **Agricultural Engineering Projects**
137. Study irrigation system efficiency
138. Compare greenhouse design effectiveness
139. Test farm tool improvement methods
140. Measure animal housing design benefits
141. Study farm equipment modification results
142. Compare storage facility designs
143. Test farm vehicle efficiency methods
144. Measure farm building ventilation effectiveness
145. Study farm safety system designs
146. Compare farm waste management systems
147. Test farm energy efficiency methods
148. Measure farm equipment maintenance results
149. Study farm structure improvement techniques
150. Compare farm transportation system effectiveness
151. Test farm processing equipment designs

Agriscience Project Ideas with Animals

1. Study how bedding affects chicken egg quality over time
2. Compare growth rates of rabbits with different feed mixes
3. Research how barn lighting impacts dairy cow milk
4. Test if classical music lowers stress in horses
5. Measure the effectiveness of fly repellents on cattle

6. Study feed protein effects on beef weight gain in winter
7. Compare honey production with hive orientations
8. Examine browse options' impact on goat milk
9. Test if automatic waterers improve pig growth
10. Research stocking densities' effect on fish growth

Agriscience Project Ideas with Plants

11. Compare heirloom and hybrid tomato seed germination rates
12. Study LED light colors on basil growth
13. Test marigolds' impact on vegetable pest control
14. Measure mulch types' effect on soil moisture
15. Research pruning methods on grape yield
16. Compare hydroponic lettuce growth with nutrients
17. Study fungi additions' effect on corn root yield
18. Test vermicompost on strawberry growth
19. Measure planting depth impact on potato quality
20. Research pest deterrents on cabbage health

FFA Agriscience Fair Project Ideas

21. Compare egg shelf life with different preservation methods
22. Study weed control in soybean fields
23. Test soil compaction with cover crops
24. Measure irrigation systems for water conservation
25. Research feed supplements on cattle muscle growth
26. Compare natural fertilizers' effect on corn yield
27. Study grain storage and feed quality
28. Test soil amendments for tomato rot
29. Measure grazing rotations' impact on pasture recovery
30. Research natural fire ant control methods

Agriscience Project Ideas with Dogs

31. Study Reward Types' Impact on Puppy Learning Speed
32. Compare natural flea control methods
33. Test if exercise affects working dog stamina
34. Measure protein sources' effect on coat health
35. Research mental enrichment effects on senior dogs
36. Compare kennel bedding for outdoor dogs
37. Study feeding schedules' effect on performance
38. Test aromatherapy on shelter dog anxiety
39. Measure supplements' effect on aging dog joints
40. Research socialization methods on puppy development