1. Plant Growth

1. **Seed Germination**: Test seed sprouting times.
2. **Soil Types**: Compare growth in different soils.
3. **Light Effects**: See how light affects plants.
4. **Watering Methods**: Try different watering techniques.
5. **Fertilizers**: Test various fertilizers.
6. **Temperature Effects**: Study how temperature changes plant growth.
7. **Hydroponics**: Grow plants without soil.
8. **Companion Plants**: See how some plants help others.
9. **Container vs. Ground**: Compare growth in pots vs. the ground.
10. **Seed Soaking**: Check if soaking seeds speeds up germination.

2. Soil and Compost

11. **Composting**: Make and use compost.
12. **Soil pH**: Test and adjust soil acidity.
13. **Earthworms**: Study how worms help soil.
14. **Soil Erosion**: Learn ways to prevent soil loss.
15. **Soil Moisture**: Measure water retention in different soils.
16. **Homemade Fertilizers**: Create your own fertilizers.
17. **Mulching**: Test how mulching affects plants.
18. **Soil Aeration**: See how aerating soil helps plants.
19. **Organic Matter**: Add compost and observe effects.
20. **Soil Structure**: Study different soil types.

3. Pest Control

21. **Natural Pesticides**: Make natural pest repellents.
22. **Beneficial Insects**: Use helpful insects to control pests.
23. **Trap Crops**: Grow plants that attract pests away.
24. **Homemade Sprays**: Create sprays to repel insects.
25. **Physical Barriers**: Protect plants with barriers.
26. **Neem Oil**: Test neem oil for pest control.
27. **Companion Planting**: Grow plants that deter pests.
28. **Bird Feeders**: Attract birds to eat pests.
29. **Planting Timings**: Study how planting times affect pests.
30. **Disease Resistance**: Test plants for disease resistance.

4. Sustainable Practices

31. **Water Conservation**: Use methods to save water.
32. **Rainwater Collection**: Collect rainwater for plants.

33. **Renewable Energy**: Use solar or wind power in gardening.
34. **Vertical Farming**: Grow plants vertically.
35. **Greenhouse Effects**: Study how greenhouses help plants.
36. **Zero Waste Gardening**: Practice gardening with no waste.
37. **Pollinator Gardens**: Attract bees and butterflies.
38. **Crop Rotation**: Rotate crops to keep soil healthy.
39. **Urban Farming**: Start a garden in a city.
40. **Eco-Friendly Packaging**: Use biodegradable packaging.

5. Animal Agriculture

41. **Chicken Coops**: Build different chicken coops.
42. **Manure Composting**: Compost animal waste.
43. **Beekeeping**: Manage a small beekeeping project.
44. **Fish Farming**: Raise fish in tanks.
45. **Aquaponics**: Combine fish and plant farming.
46. **Animal Feed**: Compare different feeds for animals.
47. **Milk Production**: Study how milk is produced.
48. **Egg Incubation**: Hatch eggs and raise chicks.
49. **Animal Behavior**: Observe animal habits.
50. **Worm Farming**: Raise worms for composting or bait.

6. Crop Production

51. **Corn Growth**: Grow and compare corn.
52. **Tomato Varieties**: Test different tomato types.
53. **Herb Gardens**: Grow and use herbs.
54. **Grain Milling**: Make flour from grains.
55. **Root Vegetables**: Grow and harvest root vegetables.
56. **Beans**: Study different bean varieties.
57. **Vine Crops**: Grow crops like cucumbers.
58. **Berry Bushes**: Grow and compare berry bushes.
59. **Green Beans**: Experiment with bean plant spacing.
60. **Squash**: Grow different types of squash.

7. Technology in Agriculture

61. **Soil Sensors**: Monitor soil conditions with sensors.
62. **Drones**: Use drones to check crops.
63. **Automated Irrigation**: Set up automatic watering.
64. **Greenhouse Tech**: Control greenhouse environments.
65. **Crop Apps**: Use apps to manage crops.
66. **Data Logging**: Record plant growth data.
67. **Precision Farming**: Use tools for precise farming.

68. **Weather Stations**: Track local weather conditions.
69. **Plant Cameras**: Use cameras to monitor plants.
70. **Agro-Tech Gadgets**: Explore new farming gadgets.

8. Environmental Impact

71. **Carbon Footprint**: Measure farming's carbon footprint.
72. **Pollution Effects**: Study pollution's effect on plants.
73. **Waste Management**: Manage farming waste.
74. **Soil Conservation**: Explore soil conservation methods.
75. **Biodiversity**: Study plant and animal diversity.
76. **Water Quality**: Check how farming affects water quality.
77. **Green Practices**: Adopt eco-friendly farming practices.
78. **Climate Change**: Study climate change impacts on crops.
79. **Land Use**: Compare different land use methods.
80. **Ecosystem Services**: Study agriculture's effect on ecosystems.

9. Agriculture Economics

81. **Cost Analysis**: Compare costs of farming methods.
82. **Market Research**: Study demand for farm products.
83. **Profitability**: Evaluate farming project profitability.
84. **Crop Rotation**: Analyze economic benefits of crop rotation.
85. **Organic vs. Conventional**: Compare organic and conventional farming costs.
86. **Community Gardens**: Study community garden economics.
87. **Value-Added Products**: Create and sell products from farm produce.
88. **Farm Software**: Test farm management software.
89. **Supply Chain**: Explore farm product supply chains.
90. **Sustainable Investment**: Evaluate investment in sustainable practices.

10. Miscellaneous

91. **Flower Gardens**: Grow and care for flowers.
92. **Plant Science**: Conduct simple plant biology experiments.
93. **Seed Saving**: Save and store seeds.
94. **Indoor Gardens**: Grow plants indoors.
95. **Vertical Gardens**: Use vertical space for plants.
96. **Seasonal Crops**: Grow crops for each season.
97. **DIY Greenhouses**: Build a small greenhouse.
98. **Pollinator Habitats**: Create habitats for pollinators.
99. **Urban Gardens**: Start a garden in an urban area.
100. **Local Food Systems**: Study benefits of local food systems.

11. Aquaculture

101. **Fish Tanks**: Maintain ecosystems in fish tanks.
102. **Aquatic Plants**: Grow plants that live in water.
103. **Pond Management**: Manage a small pond.
104. **Water Quality**: Test and maintain pond water quality.
105. **Algae Farming**: Grow algae and explore its uses.
106. **Fish Species**: Study different fish species.
107. **Shrimp Farming**: Raise shrimp in a controlled environment.
108. **Aquaponics**: Combine fish and plant farming.
109. **Water Filtration**: Develop water filtration systems.
110. **Fish Nutrition**: Compare fish feeds.

12. Agroforestry

111. **Tree Planting**: Plant and study different trees.
112. **Forest Gardens**: Create a forest garden.
113. **Shade Crops**: Grow crops in tree shade.
114. **Nutrient Cycling**: Study how trees recycle nutrients.
115. **Agroforestry Benefits**: Learn benefits of trees in farming.
116. **Tree-Crop Interactions**: Study how trees and crops interact.
117. **Ecosystem Restoration**: Use agroforestry to restore ecosystems.
118. **Wildlife Habitat**: Create habitats for wildlife.
119. **Soil Improvement**: See how trees improve soil.
120. **Agroforestry Design**: Plan and implement an agroforestry project.

13. Urban Agriculture

121. **Rooftop Gardens**: Start a rooftop garden.
122. **Community Composting**: Set up a compost system for the community.
123. **Small Space Gardening**: Grow plants in small urban spaces.
124. **Urban Beekeeping**: Keep bees in an urban setting.
125. **Hydroponics**: Use hydroponics for urban gardening.
126. **Container Gardening**: Grow plants in containers.
127. **Vertical Farming**: Implement vertical farming in cities.
128. **Green Walls**: Install living walls with plants.
129. **Urban Soil Health**: Improve soil quality in cities.
130. **Urban Food Security**: Study how urban agriculture affects food security.

14. Educational Projects

131. **Agricultural History**: Research farming history.
132. **Plant Identification**: Create a plant identification guide.
133. **Farm to Table**: Track food from farm to table.
134. **Agricultural Innovations**: Study new farming technologies.
135. **Crop Diversity**: Document different crops.

136. **Sustainable Farming**: Learn about sustainable practices.
137. **Farm Machinery**: Study different farm machines.
138. **Plant Anatomy**: Create models of plant parts.
139. **Soil Types**: Learn about various soil types.
140. **Global Farming**: Compare farming practices worldwide.

15. Food Production

141. **Jam Making**: Make homemade jam.
142. **Bread Making**: Bake bread from scratch.
143. **Cheese Making**: Try making basic cheese.
144. **Herb Infusions**: Make herb-infused oils and vinegars.
145. **Pickling Vegetables**: Pickle vegetables at home.
146. **Fermentation**: Ferment foods like sauerkraut.
147. **Germinated Seeds**: Grow and use sprouted seeds.
148. **Vegetable Juices**: Make vegetable juices.
149. **Edible Flowers**: Grow and use edible flowers.
150. **Fruit Preservation**: Preserve fruits for later use.

16. Community Projects

151. **Community Gardens**: Start a garden for the community.
152. **School Farm**: Develop a school farm project.
153. **Farmers' Market**: Organize a local market.
154. **Agricultural Workshops**: Host farming workshops.
155. **Food Drives**: Use garden produce for food drives.
156. **Plant Exchange**: Set up a plant exchange program.
157. **Educational Tours**: Offer farm tours.
158. **Youth Agriculture Clubs**: Start a club for young farmers.
159. **Garden Events**: Plan events showcasing garden produce.
160. **Harvest Festivals**: Organize a festival for the harvest.

17. Waste Reduction

161. **Organic Waste Composting**: Compost kitchen and garden waste.
162. **Recycled Planters**: Make planters from recycled materials.
163. **Upcycled Tools**: Repurpose old tools for gardening.
164. **Waste Reduction**: Reduce waste in farming.
165. **Zero Waste Gardening**: Practice no-waste gardening.
166. **Plastic Alternatives**: Use alternatives to plastic in gardening.
167. **Food Scrap Gardens**: Grow plants from food scraps.
168. **Recycled Soil Amendments**: Use recycled materials to improve soil.
169. **Waste Education**: Teach waste management practices.
170. **Composting Education**: Educate others on composting.

18. Science Experiments

171. **Plant Respiration**: Measure how plants breathe.
172. **Photosynthesis Rates**: Study light effects on photosynthesis.
173. **Soil Microbes**: Investigate soil microbes' role.
174. **Plant Transpiration**: Measure water loss in plants.
175. **Nutrient Absorption**: Test how plants take up nutrients.
176. **Growth Hormones**: Study plant hormones' effects.
177. **Seed Dispersal**: Observe how seeds spread.
178. **Pollination**: Study different pollination methods.
179. **Water Stress**: Test how plants cope with water shortages.
180. **Soil Temperature**: Explore temperature effects on soil.

19. Innovation and Inventions

181. **Automated Watering**: Design automatic watering systems.
182. **Greenhouse Control**: Create systems to control greenhouses.
183. **Crop Sensors**: Use sensors to monitor crops.
184. **Eco-Friendly Pests**: Innovate eco-friendly pest control.
185. **Sustainable Packaging**: Design eco-friendly packaging.
186. **Farm Robotics**: Use robots for farming tasks.
187. **Energy-Efficient Greenhouses**: Develop energy-saving greenhouses.
188. **Water Recycling**: Create water recycling systems.
189. **Smart Fertilizers**: Develop slow-release fertilizers.
190. **Plant Apps**: Design apps for plant care.

20. Seasonal Projects

191. **Spring Planting**: Plan and plant for spring.
192. **Summer Harvest**: Manage summer harvests.
193. **Fall Preparation**: Prepare for winter and next season.
194. **Winter Gardening**: Grow plants indoors or use winter techniques.
195. **Seasonal Pests**: Study pests that change with seasons.
196. **Holiday Plants**: Grow plants for holiday decorations.
197. **Winter Composting**: Compost waste in winter.
198. **Seasonal Crops**: Grow crops suited to each season.
199. **Temperature Effects**: Study how temperature changes affect plants.
200. **Seasonal Preservation**: Preserve seasonal produce.