

DNA Model Project Ideas For High School

Here are the most trending DNA model project ideas for high school:

Genetics & Inheritance

1. Map family eye color over three generations
2. Track patterns in pet breeding
3. Study twin DNA similarities using cheek cells
4. Analyze hair types in different family members
5. Compare sibling physical traits through DNA
6. Explore blood types in your community
7. Research [dominant traits in plant seedlings](#)
8. Study color blindness patterns across generations
9. Investigate height inheritance in family trees
10. Document tongue-rolling ability in classes
11. Compare earlobe types among students
12. Study hand clasping choices in groups
13. Analyze widow's peak patterns through generations
14. Track dimple inheritance in families
15. Research pet coat colors through breeding
16. Study fingerprint patterns among family members
17. Compare PTC tasting ability in groups
18. Analyze hair whorl patterns among students
19. Document freckle patterns in families
20. Study hand dominance in family lines

Environmental DNA Studies

21. Test pond water for microorganism DNA
22. Study soil bacteria DNA in gardens
23. Compare plant DNA from different places
24. Analyze fish species DNA in local waters
25. Study insect DNA changes across seasons
26. Test air samples for bacterial DNA
27. Compare forest vs. city bacterial DNA
28. Study beach sand for microbial life
29. Analyze leaf DNA from polluted areas
30. Research stream water DNA diversity
31. Compare grass DNA from different climates
32. Study bird feather DNA in ecosystems
33. Test rainwater for airborne DNA
34. Analyze tree bark for fungal DNA
35. Study flower pollen DNA variations
36. Compare moss DNA from various spots
37. Research desert plant DNA adaptations
38. Study snow samples for microbial DNA

39. Analyze seaweed DNA from coasts
40. Test cave samples for unique DNA

DNA Technology Applications

41. Extract DNA from different fruits
42. Build an LED model showing DNA replication
43. Create a 3D DNA structure using electronics
44. Design a digital DNA sequencing game
45. Make an interactive DNA base pairing model
46. Build a moving DNA replication display
47. Create music using DNA base sequences
48. Design a DNA storage computer model
49. Build a gene expression display
50. Create a DNA mutation demonstration board
51. Design a PCR animation model
52. Make an interactive genetic code wheel
53. Build a DNA translation lightboard
54. Create a moving transcription process model
55. Design a DNA repair demonstration kit
56. Build a genetic engineering display
57. Create a CRISPR technology model
58. Design a DNA fingerprinting process display
59. Make a gene therapy demonstration board
60. Build a DNA computing circuit model

Food & Agriculture DNA

61. Compare GMO vs. regular crop DNA
62. Study DNA changes in ripening fruit
63. Analyze DNA in different apple varieties
64. Test DNA in organic vs. regular produce
65. Study cheese bacteria DNA differences
66. Compare DNA in fresh vs. processed food
67. Analyze different bread yeast strains
68. Study DNA variations in coffee beans
69. Test DNA in different milk types
70. Compare DNA in farm vs. wild plants
71. Study honey bee DNA in gardens
72. Analyze DNA in different rice varieties
73. Test DNA in mushroom species
74. Compare heritage vs. modern crop DNA
75. Study bacterial DNA in fermented foods
76. Analyze DNA in different tea leaves
77. Test meat sources using DNA
78. Compare DNA in different wheat types
79. Study chocolate source using DNA
80. Analyze DNA in different spice plants

Medical & Health DNA

81. Study bacteria DNA on unwashed hands
82. Compare DNA in athletic vs. sedentary people
83. Analyze different blood cell DNA types
84. Test skin cell DNA after exercise
85. Study genetic markers for sleep patterns
86. Compare metabolism genes among students
87. Analyze DNA changes from stress
88. Test muscle cell DNA after training
89. Study diet impact on gene expression
90. Compare DNA in the morning vs. night people
91. Analyze variations in immunity genes
92. Test hair growth pattern DNA
93. Study aging effects on cell DNA
94. Compare genetic factors for healing rates
95. Analyze DNA patterns in allergy response
96. Test genetic markers for memory ability
97. Study heart health genetic factors
98. Compare gene expression for flexibility
99. Analyze bone density genetic markers
100. Test DNA differences in skin types

Conservation & Wildlife DNA

101. Study local bird species' DNA variations
102. Compare butterfly DNA across regions
103. Analyze DNA from endangered animals
104. Test fish population DNA diversity
105. Study plant species DNA conservation
106. Compare DNA of native vs. invasive species
107. Analyze animal migration with DNA
108. Test wildlife disease resistance genes
109. Study predator-prey DNA relationships
110. Compare protected vs. unprotected species DNA
111. Analyze habitat effects on DNA
112. Test DNA changes from animal adaptation
113. Study species recovery with DNA
114. Compare urban wildlife DNA patterns
115. Analyze ecosystem health using DNA
116. Test genetic diversity in populations
117. Study DNA adaptations to climate change
118. Compare DNA in different wolf packs
119. Analyze DNA in coral reef species
120. Test DNA diversity in forest animals

Evolution & Adaptation

121. Compare human and primate DNA similarities
122. Study fossil DNA vs. modern species
123. Analyze bird beak evolution patterns
124. Test development of insect resistance genes
125. Study DNA changes in plant adaptations
126. Compare land vs. water animal DNA
127. Analyze links between dinosaur and bird DNA
128. Test bacteria evolution in labs
129. Study fish DNA changes for adaptation
130. Compare cold vs. warm climate DNA
131. Analyze DNA in cave animal adaptations
132. Test survival genes in desert plants
133. Study DNA changes in mountain species
134. Compare DNA in runners vs. non-runners
135. Analyze DNA adaptations for high altitudes
136. Test DNA patterns in Arctic animals
137. Study DNA in deep-sea creatures
138. Compare DNA in nocturnal vs. daytime animals
139. Analyze gene expression for camouflage
140. Test genetic markers for migration patterns

Behavioral DNA Studies

141. Study genetic patterns in social behavior
142. Compare DNA markers for learning styles
143. Analyze genetic factors for risk-taking
144. Test gene expression for communication skills
145. Study genetic links for leadership traits
146. Compare DNA in creative vs. analytical thinkers
147. Analyze gene expression for empathy
148. Test genetic factors in decision-making
149. Study DNA patterns for music abilities
150. Compare genetic markers for athletic skills
151. Analyze gene expression for language learning
152. Test genetic patterns for problem-solving
153. Study DNA links to memory formation
154. Compare genetic factors for stress response
155. Analyze DNA patterns for social bonding
156. Test genetic markers for emotional intelligence
157. Study DNA links to attention span
158. Compare genetic factors for motivation
159. Analyze DNA expression for sleep patterns
160. Test genetic markers for personality traits

Disease & Immunity

161. Study genes for common cold resistance

162. Compare DNA patterns for flu immunity
163. Analyze genetic risk factors for cancer
164. Test DNA markers for autoimmune responses
165. Study genetic links to heart disease
166. Compare DNA patterns for diabetes risk
167. Analyze genetic factors in allergy responses
168. Test DNA markers for asthma risk
169. Study genetic links to Alzheimer's
170. Compare DNA patterns for arthritis risk
171. Analyze genetic factors in mental health
172. Test DNA markers for migraine risk
173. Study genetic links to obesity
174. Compare DNA patterns for vision problems
175. Analyze genetic factors in hearing loss
176. Test DNA markers for skin conditions
177. Study genetic links to bone diseases
178. Compare DNA patterns for digestive issues
179. Analyze genetic factors in blood pressure
180. Test DNA markers for immune health

Forensic DNA Projects

181. Compare DNA in different hair samples
182. Study genetic links to fingerprint patterns
183. Analyze DNA markers for blood types
184. Test methods for collecting saliva samples
185. Study recovery of skin cell DNA
186. Compare DNA patterns in identical twins
187. Analyze crime scene DNA collection methods
188. Test different DNA extraction techniques
189. Study separation of mixed DNA samples
190. Compare old vs. fresh DNA samples
191. Analyze the impact of the environment on DNA
192. Test effects of storage conditions on DNA
193. Study DNA degradation over time
194. Compare the identification of DNA from different species
195. Analyze recovery of trace DNA samples
196. Test methods to prevent DNA contamination
197. Study the process of creating DNA databases
198. Compare DNA profile matching techniques
199. Analyze methods for preserving DNA evidence
200. Test steps in DNA sample processing