

# DNA Model Project Ideas For High School

## Category 1: Edible DNA Models

1. Make a DNA double helix using colourful Twizzlers and gummy bears to show the sugar-phosphate backbone.
2. Build a DNA strand using different flavoured marshmallows to represent the four DNA bases.
3. Create a giant DNA model using stacked cookies with frosting connecting them like base pairs.
4. Design a DNA-shaped cake with coloured fondant showing all the important parts of DNA.
5. Make DNA bases using different coloured fruit slices connected with toothpicks.
6. Build a double helix using chocolate-covered pretzels for the backbone structure.
7. Create base pairs using different coloured M&Ms connected with frosting strips.
8. Make a DNA model using twisted liquorice ropes with candy pieces showing base pairs.
9. Design a DNA structure using decorated cupcakes arranged in a spiral pattern.
10. Build the double helix using alternating layers of colourful Jell-O.
11. Create DNA using decorated sugar cookies with royal icing connections.
12. Make base pairs using different flavoured gummy worms connected in the middle.
13. Design a DNA model using coloured rice crispy treats shaped into strands.
14. Build a double helix using twisted bread dough with coloured filling.
15. Create a DNA structure using layered Jell-O cups with whipped cream bases.
16. Make a model using twisted candy canes with gummy connections.
17. Design base pairs using decorated mini doughnuts connected with icing.
18. Build DNA using twisted fruit roll-ups with candy piece connections.
19. Create a double helix using stacked pancakes with coloured syrup bonds.
20. Make base pairs using different coloured ice cream scoops.
21. Design a DNA model using twisted cotton candy strands.
22. Build a structure using coloured popcorn balls connected with edible string.
23. Create base pairs using different flavoured pudding cups.
24. Make a DNA model using twisted pretzel rods with candy decorations.
25. Design a double helix using stacked wafer cookies with filling connections.
26. Build base pairs using colourful macarons connected in the middle.
27. Create a DNA structure using twisted candy ropes with gummy bases.
28. Make a model using layered gelatin shapes in clear cups.
29. Design DNA using decorated cake pops arranged in a spiral.
30. Build a double helix using coloured meringue cookies with icing bonds.

## Category 2: Recyclable Materials DNA Models

31. Build a DNA helix using empty plastic water bottles painted in bright colours.
32. Create base pairs using old CDs connected with coloured yarn.
33. Make a DNA structure using cardboard tubes from paper towel rolls.
34. Design a double helix using painted tin cans connected with wire.

35. Build base pairs using bottle caps arranged in a spiral pattern.
36. Create a DNA model using old newspapers rolled into tight tubes.
37. Make a double helix using empty egg cartons cut and painted.
38. Design base pairs using old buttons connected with string.
39. Build a DNA structure using painted plastic spoons and forks.
40. Create a model using metal coat hangers twisted into shape.
41. Make base pairs using old puzzle pieces painted in different colours.
42. Design a DNA helix using empty thread spools connected with ribbon.
43. Build a structure using painted cardboard boxes of different sizes.
44. Create base pairs using old plastic lids arranged in patterns.
45. Make a DNA model using recycled aluminium foil shaped into strands.
46. Design a double helix using old magazines rolled into tubes.
47. Build base pairs using painted milk cartons cut into shapes.
48. Create a DNA structure using empty toilet paper rolls.
49. Make a model using plastic grocery bags twisted into ropes.
50. Design base pairs using old light bulbs painted in different colours.
51. Build a DNA helix using recycled paper cups stacked together.
52. Create a structure using old plastic containers cut into shapes.
53. Make base pairs using painted popsicle sticks arranged in patterns.
54. Design a DNA model using cardboard cereal boxes cut into strips.
55. Build a double helix using old rubber bands connected together.
56. Create base pairs using recycled bottle caps and string.
57. Make a structure using empty tissue boxes painted and connected.
58. Design a DNA model using old plastic cutlery arranged in spirals.
59. Build base pairs using painted paper plates connected together.
60. Create a double helix using recycled cardboard tubes and wire.

### **Category 3: Paper-based DNA Models**

61. Create a DNA helix using colourful origami paper folded into shapes.
62. Make base pairs using paper quilling strips rolled into designs.
63. Build a DNA structure using layered construction paper cutouts.
64. Design a double helix using woven paper strips in bright colours.
65. Create base pairs using paper mache shaped into spheres.
66. Make a DNA model using accordion-folded paper strips.
67. Build a structure using paper pop-up book techniques.
68. Design base pairs using paper doilies cut and arranged.
69. Create a DNA helix using rolled newspaper tubes painted bright colours.
70. Make a model using paper plates cut into spiral shapes.
71. Build base pairs using tissue paper flowers connected together.
72. Design a DNA structure using paper snowflake-cutting techniques.
73. Create a double helix using paper chain links in patterns.
74. Make base pairs using origami cranes connected with string.
75. Build a DNA model using paper fortune tellers arranged in spirals.
76. Design a structure using paper aeroplanes connected together.
77. Create base pairs using paper pinwheels arranged in patterns.
78. Make a DNA helix using woven paper basket techniques.
79. Build a model using paper mosaic pieces in different colours.

80. Design base pairs using paper flowers made from book pages.
81. Create a DNA structure using paper weaving strips.
82. Make a double helix using paper spirals cut from circles.
83. Build base pairs using paper butterflies connected together.
84. Design a DNA model using paper lanterns arranged in patterns.
85. Create a structure using paper fans connected in spirals.
86. Make base pairs using paper hearts arranged in sequences.
87. Build a DNA helix using paper cup pyramids connected together.
88. Design a model using paper feathers arranged in patterns.
89. Create base pairs using paper stars connected with string.
90. Make a DNA structure using paper cones arranged in spirals.

#### **Category 4: Digital DNA Models**

91. Create a DNA animation using simple stop-motion with clay figures.
92. Build a virtual DNA model using Minecraft blocks and Redstone.
93. Design a DNA structure using the Tinkercad 3D modelling program.
94. Make an animated DNA video using PowerPoint transitions.
95. Create base pairs using digital art in Paint 3D.
96. Build a DNA model using Scratch programming blocks.
97. Design a double helix using Google SketchUp tools.
98. Make an interactive DNA game using Roblox Studio.
99. Create a DNA structure using Microsoft Paint 3D tools.
100. Build base pairs using Adobe Animate frame by frame.
101. Design a DNA model using Python Turtle graphics.
102. Make an animated GIF showing DNA replication.
103. Create a DNA visualisation using Excel charts and graphs.
104. Build a virtual reality DNA model using CoSpaces Edu.
105. Design base pairs using Google Slides animations.
106. Make a DNA model using Blender 3D software.
107. Create an augmented reality DNA using Merge Cube.
108. Build a double helix using Kodable programming blocks.
109. Design a DNA structure using Code.org's App Lab.
110. Make base pairs using Kodu Game Lab.
111. Create a DNA model using Alice programming software.
112. Build an interactive DNA using Snap! Programming.
113. Design a double helix using the Unity game engine.
114. Make base pairs using GameMaker Studio.
115. Create a DNA structure using MIT App Inventor.
116. Build a virtual DNA using the Construct game engine.
117. Design base pairs using Godot Engine tools.
118. Make a DNA model using Piskel pixel art.
119. Create an animated DNA using the Flipaclip app.
120. Build a double helix using Pencil 2D animation.

#### **Category 5: Outdoor Nature DNA Models**

121. Create a DNA helix using different coloured leaves arranged in patterns.

122. Make base pairs using small rocks painted in bright colours.
123. Build a DNA structure using twisted tree branches and vines.
124. Design a double helix using flower petals arranged in spirals.
125. Create base pairs using seashells connected with string.
126. Make a DNA model using pinecones arranged in patterns.
127. Build a structure using different coloured sand layers.
128. Design base pairs using acorns and nuts painted brightly.
129. Create a DNA helix using bamboo sticks and grass weaving.
130. Make a model using moss and lichens arranged in spirals.
131. Build base pairs using small pebbles sorted by colour.
132. Design a DNA structure using dried flowers pressed together.
133. Create a double helix using twisted grape vines.
134. Make base pairs using different coloured bird feathers.
135. Build a DNA model using bark pieces arranged in patterns.
136. Design a structure using dried corn husks woven together.
137. Create base pairs using different types of seeds.
138. Make a DNA helix using twisted palm fronds.
139. Build a model using different coloured flower petals.
140. Design base pairs using small twigs arranged in patterns.
141. Create a DNA structure using cattails and reeds.
142. Make a double helix using dried seaweed strips.
143. Build base pairs using different types of leaves.
144. Design a DNA model using pressed flower arrangements.
145. Create a structure using natural clay and pebbles.
146. Make base pairs using different coloured butterfly wings.
147. Build a DNA helix using woven grass strands.
148. Design a model using different types of moss.
149. Create base pairs using small shells arranged in patterns.
150. Make a DNA structure using twisted willow branches.

### **Category 6: Light and Shadow DNA Models**

151. Create a DNA helix using glow sticks arranged in spirals.
152. Make base pairs using LED lights connected with clear wire.
153. Build a DNA structure using shadow puppets and flashlights.
154. Design a double helix using laser pointers and mirrors.
155. Create base pairs using light-up bouncy balls.
156. Make a DNA model using phosphorescent paint designs.
157. Build a structure using fibre optic strands.
158. Design base pairs using UV reactive beads.
159. Create a DNA helix using light projection patterns.
160. Make a model using light-sensitive paper designs.
161. Build base pairs using neon light tubes.
162. Design a DNA structure using holographic paper.
163. Create a double helix using black light-reactive paint.
164. Make base pairs using light-up balloon arrangements.
165. Build a DNA model using reflective tape patterns.
166. Design a structure using lightbox animations.

167. Create base pairs using light-sensitive stickers.
168. Make a DNA helix using shadow art techniques.
169. Build a model using mirror ball reflections.
170. Design base pairs using prism light patterns.
171. Create a DNA structure using light painting photography.
172. Make a double helix using string light arrangements.
173. Build base pairs using light-up toy connections.
174. Design a DNA model using shadow box displays.
175. Create a structure using light projection mapping.
176. Make base pairs using rainbow light patterns.
177. Build a DNA helix using a light diffraction grating.
178. Design a model using light-sensitive crystals.
179. Create base pairs using LED strip patterns.
180. Make a DNA structure using light and mirror illusions.

### **Category 7: Moving DNA Models**

181. Create a DNA helix using spinning pinwheels in patterns.
182. Make base pairs using moving robot arms.
183. Build a DNA structure using rotating gears and wheels.
184. Design a double helix using swinging pendulums.
185. Create base pairs using moving puppet joints.
186. Make a DNA model using wind-powered spinners.
187. Build a structure using mechanical cranks.
188. Design base pairs using electric motor rotations.
189. Create a DNA helix using moving marble runs.
190. Make a model using water wheel movements.
191. Build base pairs using pulley system rotations.
192. Design a DNA structure using domino chain reactions.
193. Create a double helix using spinning tops arranged in patterns.
194. Make base pairs using moving magnets.
195. Build a DNA model using hydraulic syringes.
196. Design a structure using balloon-powered movements.
197. Create base pairs using spring mechanisms.
198. Make a DNA helix using moving clock gears.
199. Build a model using string puppet controls.
200. Design base pairs using mobile balancing parts.
201. Create a DNA structure using wind-up toy movements.
202. Make a double helix using rubber band-powered parts.
203. Build base pairs using moving ball bearings.
204. Design a DNA model using spinning bicycle wheels.
205. Create a structure using moving kaleidoscope patterns.
206. Make base pairs using moving fan blades.
207. Build a DNA helix using rotating solar panels.
208. Design a model using moving magnetic fields.
209. Create base pairs using moving steam engine parts.
210. Make a DNA structure using moving perpetual motion designs.

## **Category 8: Musical DNA Models**

211. Create a DNA helix using different pitched bells arranged in spirals.
212. Make base pairs using musical note patterns on a staff.
213. Build a DNA structure using different sized wind chimes.
214. Design a double helix using drum rhythms in patterns.
215. Create base pairs using xylophone key arrangements.
216. Make a DNA model using guitar string vibrations.
217. Build a structure using piano key sequences.
218. Design base pairs using different musical instruments.
219. Create a DNA helix using singing bowl arrangements.
220. Make a model using rhythmic percussion patterns.
221. Build base pairs using harmonica note sequences.
222. Design a DNA structure using musical chord progressions.
223. Create a double helix using different-pitched whistles.
224. Make base pairs using recorded sound waves.
225. Build a DNA model using music box mechanisms.
226. Design a structure using electronic synthesiser patterns.
227. Create base pairs using different-sized flutes.
228. Make a DNA helix using musical triangle arrangements.
229. Build a model using different-sized drums.
230. Design base pairs using metronome patterns.
231. Create a DNA structure using violin string patterns.
232. Make a double helix using tuning fork arrangements.
233. Build base pairs using different-sized bells.
234. Design a DNA model using reed instrument sounds.
235. Create a structure using brass instrument patterns.
236. Make base pairs using electronic music sequences.
237. Build a DNA helix using different pitched pipes.
238. Design a model using musical staff arrangements.
239. Create base pairs using different-sized cymbals.
240. Make a DNA structure using digital music patterns.

## **Category 9: Mixed Media DNA Models**

241. Create a DNA helix using a combination of clay and wire.
242. Make base pairs using wood blocks and metal connectors.
243. Build a DNA structure using fabric and plastic pieces.
244. Design a double helix using glass beads and string.
245. Create base pairs using foam shapes and wooden dowels.
246. Make a DNA model using rubber bands and paper clips.
247. Build a structure using pipe cleaners and beads.
248. Design base pairs using magnets and metal sheets.
249. Create a DNA helix using cotton balls and toothpicks.
250. Make a model using straws and modelling clay.
251. Build base pairs using foam board and string lights.
252. Design a DNA structure using wood strips and metal nuts.
253. Create a double helix using plastic tubes and wire mesh.

254. Make base pairs using cork pieces and wooden skewers.
255. Build a DNA model using felt pieces and button connections.
256. Design a structure using rubber foam and pipe cleaners.
257. Create base pairs using wooden beads and elastic cords.
258. Make a DNA helix using plastic canvas and yarn.
259. Build a model using clothespins and ribbons.
260. Design base pairs using foam blocks and drinking straws.
261. Create a DNA structure using craft wire and beads.
262. Make a double helix using paper tubes and string.
263. Build base pairs using wooden dowels and foam balls.
264. Design a DNA model using fabric strips and wire.
265. Create a structure using plastic sheets and metal fasteners.
266. Make base pairs using cork board and pushpins.
267. Build a DNA helix using rubber tubing and wooden beads.
268. Design a model using foam sheets and pipe cleaners.
269. Create base pairs using plastic strips and metal wire.
270. Make a DNA structure using fabric tubes and wooden dowels.