TNSCST Project Ideas For Science

List of useful TNSCST Project Ideas For Science top score high marks:

Environmental Science Projects

1. Make a small rain gauge so you can measure rain each day.
2. Start a compost bin and watch how food scraps turn into soil.
3. Build a simple water filter from sand and charcoal.
4. Make a mini solar oven with a cardboard box and foil.
5. Create a wind vane to see which way the wind blows.
6. Grow the same plant in different soils to see which one grows best.
7. Build a tiny greenhouse using plastic bottles and tubs.
8. Make a bird feeder from recycled items and count the birds that visit.
9. Test different materials to see which one breaks down fastest in soil.
10. Create the water cycle inside a clear plastic bag with a little water.
11. Plant seeds under bright light and in shade to watch their growth.
12. Build a small terrarium with tiny plants and watch how they change.
13. Collect soil from different spots near your house and test each one.
14. Build a worm farm and watch worms make rich soil.
15. Make a simple barometer using a jar and a balloon to watch air pressure.
16. Roll seed bombs to plant flowers in empty lots.
17. Use test strips to check water from different taps or puddles.
18. Build a rainwater collector to water your plants later.
19. Make a bug hotel to attract helpful insects to your garden.
20. Create a small solar-powered pump to water plants.

21. Test which kitchen scraps make the best plant food.

22. Show how erosion works with a tray of soil and flowing water.

23. Build a simple anemometer to measure wind speed.

24. Test different covers to see which one keeps soil warm.

25. Show how water pollution spreads in a clear box.

26. Make seed starters from egg cartons and old newspapers.

27. Purify water using only natural materials like sand and charcoal.

28. Test which plants clean dirty water best.

29. Show how landslides happen with a pile of soil on a board.

30. Make biodegradable pots from newspaper to start seedlings.

31. Build a solar still to turn dirty water into clean water.

32. Create a weather station with tools you make at home.

33. Test how much water different plants drink as they grow.

34. Show how floods change land with sand and water in a tray.

35. Create a display that shows what happens during a drought.

36. Build a rainwater system for your school garden.

37. Test how mulch helps soil keep water for plants.

38. Make a display to show how ocean currents move water.

39. Build a model to show how tsunamis form and hit coasts.

40. Make a small dam to show how rivers can be controlled.

41. Test which plants grow best in each season in Tamil Nadu.

42. Show how mangroves protect the coast with a simple model.

43. Make leaf rubbings to learn about different leaf shapes.

44. Build a solar dehydrator to dry and save fruits.

45. Test what happens when river water meets ocean water.
46. Create a model to show how groundwater moves underground.
47. Make a display of the water cycle as it happens in Tamil Nadu.
48. Build a simple hygrometer to measure how much moisture is in the air.
49. Test how acid rain affects different kinds of plants.
50. Create a mini wetland in a tray to see how it cleans water.

Simple Physics and Engineering Projects

51. Build a rubber-band car that zooms forward.
52. Make a balloon rocket that flies along a string.
53. Create a pulley system to lift heavy things.
54. Build a strong bridge using only popsicle sticks.
55. Make a marble run to show gravity and stored energy.
56. Test different fabrics for a parachute that lands safely.
57. Build a catapult to launch small objects straight.
58. Make an electric circuit with a battery and a bulb.
59. Create a maze game with paperclips and magnets.
60. Build a toy boat and see how much weight it can hold.
61. Make a simple kaleidoscope with mirrors and beads.
62. Create a pinhole camera to project an image on paper.
63. Build a lever to move heavy objects with less effort.
64. Make a windmill that spins when you blow on it.
65. Build a water wheel that turns with flowing water.
66. Create a thermometer from colored water in a straw.

67. Make a compass using a needle and a magnet.

68. Build a periscope with mirrors to see around corners.

69. Create a balance scale to weigh small items.

70. Make a turbine from plastic spoons and water.

71. Build a pendulum and track its swings.

72. Make a stethoscope to hear heartbeats clearly.

73. Create a sound amplifier with cups and string.

74. Build a model to show how gears fit and turn.

75. Test paper airplane designs to see which one flies farthest.

76. Make a camera obscura to project outdoor scenes inside.

77. Create a balloon hovercraft with an old CD and a balloon.

78. Build a solar spinner that turns in sunlight.

79. Make a Newton’s cradle with balls and string.

80. Show how pulleys make lifting easier with a simple model.

81. Build a microscope using a drop of water and a phone.

82. Create a hydraulic arm with syringes and tubes.

83. Make a flashlight from a battery, wire, and a small bulb.

84. Build a model to show how inclined planes help move things.

85. Make a spring scale to measure push or pull force.

86. Create a device to show centripetal force with a small ball.

87. Build a simple telegraph with wire and a battery.

88. Display how sound waves travel through air.

89. Show Bernoulli’s principle with paper and blowing air.

90. Build a seismograph to record small vibrations.

91. Show how levers change the direction of force.
92. Make a balloon-powered boat to glide on water.
93. Build a model to show how friction slows things down.
94. Create a gyroscope from a CD and a string.
95. Make a slingshot to see stored and moving energy.
96. Build a simple electric motor with wire and a battery.
97. Show how light bends when it moves through water.
98. Make a homemade telephone with cups and string.
99. Show how sound travels through solids with a model.
100. Create a water rocket from a plastic bottle.

Chemistry and Materials Science Projects

101. Make slime and test what changes how stretchy it gets.
102. Grow crystals from sugar or salt and watch them form.
103. Test different fruits like grapes or red cabbage to see color change.
104. Build a small volcano that oozes foam with baking soda and vinegar.
105. Write secret messages with lemon juice and heat to reveal them.
106. Drop different items in water to see which one dissolves fastest.
107. Mix soap and water to blow bubbles and test wand shapes.
108. Show how plants drink colored water in a clear stem.
109. Freeze juice, oil, and water to see which one hardens first.
110. Make fizzy bath bombs with baking soda and citric acid and watch them fizz.
111. Show how soap breaks apart oil on a dish.
112. Test materials like cloth or plastic to see which one repels water best.
113. Mix milk and vinegar to make sticky glue and test it.

114. Freeze plain and salty water to see how salt changes freezing.

115. Use cabbage juice to test if liquids are acids or bases.

116. Heat metal rods in warm water to see which one gets hot fastest.

117. Shake cream until it turns into butter and watch the change.

118. Leave nails and bolts in water to see which one rusts first.

119. Mix red, yellow, and blue paints to see what new colors appear.

120. Layer oil, syrup, and water in a jar to see a density column.

121. Wrap items in cloth or foil to test which keeps heat best.

122. Drop soap in milk with food coloring to see swirling patterns.

123. Put limestone in vinegar to watch bubbles form.

124. Test bread or cereal with iodine to see which has more starch.

125. Soak fabric pieces in dye to see which holds color best.

126. Mix cornstarch and water to make oobleck and press it to feel hard or soft.

127. Try cleaning stains with soap, baking soda, or vinegar to see which works best.

128. Boil salted and plain water to see how salt changes boiling time.

129. Stir sugar in cold and hot water to see which one dissolves faster.

130. Mix milk and vinegar to make a small piece of plastic.

131. Blow bubbles to see how soap films form shapes.

132. Cover boxes with foam, cloth, or cardboard to test sound blocking.

133. Make a poster that shows how yeast puffs up bread dough.

134. Create plastic from milk and vinegar and test its strength.

135. Soak cloth in water and test which breaks more easily when wet.

136. Heat, cool, and evaporate water in a cup to show liquid, ice, and steam.

137. Sprinkle salt on ice to see how it melts faster.

138. Drop tablets in warm and cold water to see which fizzes more.

139. Grow sugar crystals on a string over days to make rock candy.

140. Place papers in water to see which one absorbs water fastest.

141. Bury paper, leaves, and plastic in soil to see which one disappears first.

142. Spray perfume in the air and smell how far it travels.

143. Test wires of copper and aluminum to see which one lights a bulb best.

144. Measure how fast gases disappear in cold and warm water.

145. Use plants like turmeric or beetroot to make homemade dyes and test them.

146. Pour colored water through a coffee filter to see color layers.

147. Wrap cups in wool, tin foil, or cloth to see which one keeps drink warm.

148. Drop candy shells in water to see which shell dissolves fastest.

149. Put a card on top of a full glass and turn it upside down to show how water stays inside.

150. Show how water climbs up a thin straw against gravity by capillary action.

Biology and Life Science Projects

151. Grow bean seeds in cups with light and in the dark and measure their height.

152. Build a simple heart model with tubes to show how blood moves.

153. Leave slices of bread out and see which one grows mold first.

154. Make a flower model showing petals, stem, and roots.

155. Wash your hands with soap and water and use glitter to show germs removed.

156. Grow plants under a lamp or in shade to see which way they bend toward light.

157. Build a model of the digestive system using tubes and bags.

158. Sort foods into groups like grains, fruits, and proteins on a chart.

159. Soak eggshells in soda, vinegar, and water to see which one stains teeth.

160. Make a lung model using balloons and bottles to show breathing.

161. Press your fingers for prints and show how each is different.

162. Water plants with juice, soda, or water to see which one grows best.

163. Build a cell model with clay for nucleus, membrane, and parts.

164. Tie strings to sticks to show how muscles pull bones in pairs.

165. Play loud and soft sounds and use a heart monitor app to see heartbeat change.

166. Make an eye model with lenses to show how we focus.

167. Build a simple blood-flow chart with arrows showing one-way valves.

168. Use iodine on orange slices to test vitamin C presence.

169. Make an ear model with tubes and a balloon to show sound waves.

170. Show how skin acts as a barrier by testing water on bare and covered skin.

171. Weigh plants before and after a day to see how much water they lose.

172. Use straws and tape to model how joints bend bones.

173. Taste salty, sweet, sour, and bitter on tongue maps to show taste buds.

174. Plant seeds in salty and plain soil to see which sprouts better.

175. Build a brain model with clay showing parts for thinking and moving.

176. Measure breathing rate before and after jumping jacks to show exercise effects.

177. Grow yeast in sugar water and in plain water to see which bubbles most.

178. Carve tooth shapes from clay to show biting, tearing, and grinding teeth.

179. Feed worms different foods and count how much soil they make.

180. Test crackers, bread, and rice with iodine to see which has starch.

181. Tap a finger on your knee and watch the leg kick to show reflexes.

182. Compare different bird beaks by using tweezers to pick up items.

183. Shine red, blue, and green lights on plants to see which helps them grow best.

184. Watch caterpillars turn into butterflies in a jar.

185. Cut open fruit to show seeds inside and label them.

186. Plant beans at room and cold temperatures to see which sprout faster.

187. Use a jar with air hole to show how fish breathe in water.

188. Watch ants work together to carry food on a board.

189. Test bread, cheese, and fruit for bacterial growth over days.

190. Build a blood vessel model with straws to show veins carry blood back.

191. Show how leaves use light to make food by mixing baking soda and water under a lamp.

192. Play music near plants and measure their height compared to quiet ones.

193. Stack sticks to build a little skeleton frame and show support.

194. Press different animal paws into clay to show foot shapes.

195. Shine white and black paper in sunlight to see which one heats up more.

196. Drop seeds in wind or water to see how they travel in different ways.

197. Lay out pictures of reptiles and mammals to list their differences.

198. Fill containers with sand or clay and watch how worms move through.

199. Paint a model animal green or brown to show how camouflage hides it.

200. Draw local animals and note special features they use to live here.

Astronomy and Earth Science Projects

201. Build a model of the solar system with balls for each planet.

202. Make a sundial and use its shadow to tell the time each hour.

203. Show day and night by spinning a painted ball in sunlight.

204. Draw moon phases on paper each night and label them.

205. Build a clay volcano and pour baking soda mix to show an eruption.

206. Layer playdough to show Earth’s crust, mantle, and core inside a ball.

207. Connect star stickers to draw constellations on dark paper.

208. Keep a moon journal and sketch its shape every evening.

209. Stack clay to show how mountains rise over long time.

210. Draw puffy, wispy, and blanket clouds on a poster and label them.

211. Shake a tower of blocks to show how earthquakes make buildings wobble.

212. Make a simple weather station with rain gauge and wind vane.

213. Use a tug-of-war rope to show how tides pull water with moon’s gravity.

214. Tilt a globe to show how seasons change as Earth moves around sun.

215. Glue rocks onto a board to show igneous, sedimentary, and metamorphic types.

216. Use a ball and paper to cast shadows and show solar and lunar eclipses.

217. Layer sand and soil in a jar and pour water to show how fossil fuels form.

218. Drop small stones through a funnel of air to show meteors burning up.

219. Place Earth in a chart to show its spot in the solar system.

220. Layer colored sand to show soil forming in layers over time.

221. Build a small waterfall in a tray to show how rivers carve land.

222. Carve a cave in clay to show how water erodes rock underground.

223. Build a sandy beach in a box and add waves with water to show erosion.

224. Stack layers of clay to show how sedimentary rock builds up in layers.

225. Carve ice blocks to show how glaciers slide and shape valleys.

226. Use gravel and sand to show how water moves underground in aquifers.

227. Rub two clouds made of cotton and see how lightning might form with static.

228. Stir water in a bowl to show how hurricanes spin and pull air in.

229. Draw the rock cycle arrows and glue small rock samples under each.

230. Press leaves and shells into clay to show how fossils form over time.
231. Paint stars in red, white, and blue to show how star colors relate to temperature.
232. Use a funnel of warm and cool air to show how tornadoes start spinning.
233. Wrap a magnet around a ball to show Earth’s magnetic field protects us.
234. Shine a flashlight on dark paper to show how city lights hide stars.
235. Roll a ball around a ring to show how planets orbit the sun.
236. Drop different objects to show how gravity pulls them at the same speed.
237. Hunt for shiny pebbles to show how gemstones form deep under Earth.
238. Glue cotton balls on dark paper to show puffy, wispy, and layered cloud types.
239. Use water and sand in a box to show how waves shape coastlines.
240. Run water over a pile of sand to show how rivers carve canyons.
241. Paint tan and red areas on clay to show how deserts form from low rain.
242. Press thin layers of dough to show how ocean floors have trenches.
243. Shine light through a prism to show how rainbows appear in sky.
244. Fill a glass with water and shine light to show why sky looks blue.
245. Stack colored paper layers labeled with Tamil Nadu soil types.
246. Attach a string to a ball to show how comets orbit the sun in long tails.
247. Draw twinkling stars by turning lights on and off behind cotton clouds.
248. Spin a globe under a lamp to show how Earth’s spin makes day and night.
249. Layer plastic wrap and balloons to show how ozone layer blocks UV.
250. Use arrows on a map to show how wind patterns move weather across Earth.

Technology and Innovation Projects

251. Build a simple robot that moves with small motors and batteries.

252. Create a board game that teaches how computers use 0s and 1s.

253. Make a small panel of foil and wires to show how solar panels make power.

254. Build a phone projector with a box and a magnifying glass lens.

255. Draw an app screen on paper that helps people solve a daily problem.

256. Show radio waves by tuning a small speaker and antenna from a tin can.

257. Build a toy car that runs on a small solar cell when the sun shines.

258. Take apart a battery and draw how its parts make electricity.

259. Make a box that shows how computers store data on disks or chips.

260. Build a straw and cloth filter to clean muddy water.

261. Show touchscreen layers by stacking clear plastic sheets and foil.

262. Send messages between two cans and a string to show Wi-Fi basics.

263. Build a small windmill with paper blades and a toothpick axle.

264. Show speaker parts and test how they make sound from wires.

265. Take apart an old camera and draw how it captures light as pixels.

266. Use syringes and tubes to make a small hydraulic arm that lifts items.

267. Show how a fridge uses coils and a pump to keep things cold.

268. Cut up an old TV screen to show how pixels make pictures.

269. Build an alarm using a battery, wire, and a buzzer.

270. Print a QR code and show how scanning it gives information.

271. Glue toothpicks to make a model of a 3D printer’s moving part.

272. Build a cardboard hand that moves with strings to show a robotic hand.

273. Show microphone parts and test speaking into wires and magnets.

274. Build a paper helicopter to show how drones stay balanced in air.

275. Draw block-code steps on cards to show how simple programs run.

276. Show LED parts and test lighting them with a small battery.

277. Wrap wire around a nail and connect to a battery to spin a motor.

278. Pump water with a bottle, tube, and rubber band to show a water pump.

279. Show how a toy satellite uses batteries and antennas to orbit a model Earth.

280. Build a pulley and rope elevator in a box to show how lifts work.

281. Draw a school water filter design that cleans rainwater for drinking.

282. Show how an air conditioner uses coils and fans to cool air.

283. Build a small tank model that floats and sinks with a balloon ballast.

284. Draw a simple model of an electric car motor and battery pack.

285. Show how fingerprint scanners use light or touch to read prints.

286. Make a small rocket from a straw and film canister to show launch.

287. Build a paper wind turbine that spins in a breeze to show green power.

288. Show how a dam model uses water flow to turn a small wheel.

289. Build a doorway that opens when a string sensor is pulled.

290. Draw a room with sensors that turn lights on when someone moves.

291. Show parts of a prosthetic arm with cardboard and strings to lift small things.

292. Use cups and strings to build a simple video-call toy phone.

293. Make a tester with wires and a light to check water quality.

294. Show how wing shape makes planes lift by blowing under a paper wing.

295. Build a clear box with mirrors to show a 3D hologram effect.

296. Stack blocks on a shaking board to test earthquake-safe building shapes.

297. Show how a photo’s pixels turn on and off by drawing a grid of dots.

298. Build a small bridge of popsicle sticks and test weight it holds.

299. Make a model of waves in pipes to show how wave energy can power turbines.

300. Show how electric cars cut pollution by comparing exhaust and battery power.