

## **Environmental Science**

1. Impact of plastic pollution on marine life
2. Biodegradable alternatives to plastic
3. Effects of deforestation on local climate
4. Methods to reduce carbon footprint
5. Urban green spaces and their benefits
6. Renewable energy sources: Solar vs. Wind
7. Water purification techniques
8. Rainwater harvesting systems
9. Composting methods for organic waste
10. Air quality monitoring and improvement

## **Physics**

11. Solar-powered desalination
12. Wind turbine efficiency
13. Homemade spectrometer
14. Electromagnetic railgun
15. Building a basic seismograph
16. Investigating properties of different materials
17. The physics of musical instruments
18. Light reflection and refraction
19. Magnetic levitation
20. Energy conversion in roller coasters

## **Chemistry**

21. Homemade pH indicator
22. Electrolysis of water
23. Chemical reactions and temperature change
24. Crystallization processes
25. Acid rain simulation and effects
26. Battery chemistry: Different types and their efficiencies
27. Soap making and chemical reactions
28. Cleaning oil spills: Methods and effectiveness
29. Chemical changes in cooking
30. Developing natural dyes from plants

## **Biology**

31. Effects of different fertilizers on plant growth
32. Antibiotic resistance in bacteria

33. Photosynthesis: Factors affecting the rate
34. Microbial fuel cells
35. Biodiversity in local ecosystems
36. Insect behavior and habitat preferences
37. Plant growth in different soil types
38. The impact of invasive species
39. Bioluminescence in marine organisms
40. Genetic variation in plant species

## **Health and Medicine**

41. Homemade stethoscope and its effectiveness
42. Blood sugar levels and diet
43. Impact of exercise on heart rate
44. Herbal remedies: Effectiveness and safety
45. Developing a low-cost water filter
46. Effects of different diets on energy levels
47. Understanding and measuring lung capacity
48. UV radiation and its effects on skin
49. Nutrient content in different foods
50. Microorganisms in everyday life

## **Earth Science**

51. Soil erosion prevention methods
52. Volcanic activity simulation
53. Earthquake-resistant building structures
54. Mineral identification and classification
55. Water cycle and its importance
56. Glacier melt and sea level rise
57. Fossil formation and identification
58. Solar and lunar eclipse models
59. Weather patterns and prediction
60. Impact of climate change on biodiversity

## **Technology and Engineering**

61. Building a basic robot
62. Solar-powered water heater
63. Wind-powered vehicle
64. Homemade electric generator
65. Bridge design and load-bearing capacity
66. Smart irrigation systems
67. Basic drone design

68. Hydroelectric power model
69. Developing a simple AI algorithm
70. Solar oven construction

## **Astronomy**

71. Building a simple telescope
72. Phases of the moon model
73. Solar system scale model
74. Investigating different types of stars
75. The effect of light pollution on star visibility
76. Studying meteor showers
77. Understanding black holes
78. Gravity and planetary motion
79. Life cycle of a star
80. The search for exoplanets

## **Energy**

81. Solar cell efficiency
82. Kinetic energy harvesting
83. Hydrogen fuel cells
84. Battery life comparison: Alkaline vs. Lithium
85. Energy storage methods
86. Biomass energy conversion
87. Hydropower potential in local streams
88. Tidal energy: Pros and cons
89. Geothermal energy extraction
90. Energy conservation in homes

## **Mathematics**

91. Fibonacci sequence in nature
92. Probability and statistics in real-life situations
93. Exploring geometric shapes in architecture
94. Mathematical modeling of population growth
95. Cryptography and encryption methods
96. Game theory applications
97. Mathematical patterns in music
98. Fractals and their properties
99. Chaos theory and weather prediction
100. Optimization algorithms

## **Behavioral Science**

101. Impact of music on concentration
102. Color psychology and mood
103. Social media usage and self-esteem
104. Memory retention techniques
105. Effects of sleep on cognitive function
106. Behavioral responses to different stimuli
107. Peer pressure and decision making
108. Learning styles and academic performance
109. Impact of video games on behavior
110. Cultural influences on behavior

## **Environmental Management**

111. Sustainable agriculture practices
112. Reducing household waste
113. Green building materials
114. Ecosystem restoration projects
115. Urban farming techniques
116. Conservation of water resources
117. Community recycling programs
118. Impact of tourism on natural habitats
119. Renewable energy integration
120. Wildlife conservation strategies

## **Materials Science**

121. Properties of different polymers
122. Conductivity of various materials
123. Developing new composite materials
124. Corrosion resistance in metals
125. Insulation properties of different materials
126. Strength testing of construction materials
127. Biodegradable plastics
128. Thermal conductivity experiments
129. Nanomaterials and their applications
130. Smart materials and their uses

## **Robotics and Automation**

131. Line-following robot
132. Automated greenhouse
133. Robotic arm design
134. Self-balancing robot
135. Drone delivery systems

136. Home automation systems
137. Search and rescue robots
138. Robotic pets and their benefits
139. AI in robotics
140. Obstacle-avoiding robot

## **Renewable Energy**

141. Solar-powered charging station
142. Wind energy potential in urban areas
143. Biomass energy systems
144. Solar thermal energy applications
145. Micro-hydropower systems
146. Tidal energy models
147. Energy-efficient home designs
148. Renewable energy storage solutions
149. Off-grid solar systems
150. Sustainable transportation methods

## **Food Science**

151. Nutritional analysis of different diets
152. Food preservation techniques
153. Fermentation processes
154. Impact of cooking methods on nutrient content
155. Food safety and hygiene
156. Organic vs. conventional farming
157. Development of plant-based proteins
158. Effects of food additives
159. Sustainable food packaging
160. Edible water bottles

## **Water Conservation**

161. Greywater recycling systems
162. Drip irrigation efficiency
163. Rainwater harvesting effectiveness
164. Water quality testing
165. Desalination methods
166. Water purification with natural materials
167. Impact of agriculture on water resources
168. Conservation strategies for freshwater ecosystems
169. Smart water meters
170. Reducing water wastage in households

## **Transportation**

171. Electric vehicle efficiency
172. Hydrogen-powered cars
173. Public transportation improvements
174. Bicycle-friendly city designs
175. Reducing traffic congestion
176. Smart traffic management systems
177. Hyperloop feasibility
178. Autonomous vehicle technology
179. Sustainable aviation fuel
180. High-speed rail systems

## **Climate Change**

181. Carbon sequestration methods
182. Impact of global warming on local weather patterns
183. Climate change mitigation strategies
184. Renewable energy adoption rates
185. Reforestation projects
186. Greenhouse gas emissions tracking
187. Climate modeling and prediction
188. Sea level rise adaptation
189. Impact on agriculture
190. Public awareness campaigns

## **Computer Science**

191. Coding a simple game
192. Developing a mobile app
193. Building a website
194. Data encryption techniques
195. Machine learning algorithms
196. Virtual reality applications
197. Internet of Things (IoT) projects
198. Cybersecurity measures
199. Blockchain technology
200. Artificial intelligence chatbots