

# Biome Project Ideas For High School

Here are some of the best biome project ideas for high school:

## Desert Biome Projects

1. Make a small desert garden in a clear box to show how plants survive in hot, dry places.
2. Create a water system that uses sunlight to collect water for desert animals.
3. Build a model of a cactus to show how it saves and holds water.
4. Make a moving model to show how dunes form in the desert.
5. Create a desert animal guidebook with fun facts about how they stay alive.
6. Build a tiny greenhouse to show how desert plants grow in layers.
7. Design a desert animal home that stays cool without using power.
8. Make a hanging display with string and pictures to show how desert animals eat and survive.
9. Build a model of underground homes where desert animals live.
10. Make a simple weather station to track desert temperatures.
11. Create a way to water desert plants using old materials.
12. Make a game where you match desert animal footprints using clay.
13. Show how desert temperatures change from morning to night with a simple project.
14. Build a model to show how desert plants collect water from morning dew.
15. Design a survival bag filled with important items for staying safe in the desert.
16. Make a display of desert soil layers using clear jars.
17. Create a card game where players match desert plants to their special features.
18. Show how wind moves sand in the desert with a fun experiment.
19. Make a display board that explains how desert animals save water.
20. Build a model of desert plant roots to show how deep they grow.
21. Create a small desert world in a bottle to show how everything works together.
22. Make a model that shows what happens when sudden heavy rain hits the desert.
23. Design a board to show how desert animals use colors to hide.
24. Create a display to show how desert plants spread their seeds.
25. Make a chart to compare hot desert days and cold desert nights.
26. Build a model to show how rocks in the desert slowly break down.
27. Create a plan for a garden with desert plants that help bees and other animals.
28. Compare how desert plants and animals survive versus those in other places.
29. Make a pyramid model to show who eats what in the desert.
30. Build a small home to show where tiny desert animals live.

## Rainforest Biome Projects

31. Create a model showing different layers of the rainforest and where animals live.
32. Build a working model of how water moves through the rainforest.
33. Make a small, wet environment to grow rainforest plants.
34. Create a rainforest treetop model to show how animals live high above the ground.
35. Show how rainforest plants spread their seeds using real-life examples.
36. Make a model of plants that grow on trees instead of in the ground.

37. Design an interactive display to show how rainforest animals blend in.
38. Create a station where you can watch leaves and plants break down over time.
39. Record rainforest sounds and make a project explaining where they come from.
40. Build a model to show how tree roots in the rainforest connect.
41. Create a display to compare how rainforest leaves look and why they are different.
42. Make a board that explains how rainforest animals talk to each other.
43. Research plants from the rainforest that people use for medicine.
44. Build a model to show how nutrients move through the rainforest.
45. Create a project that teaches people how to help save the rainforest.
46. Make a display of different fruits that grow in the rainforest.
47. Track how rainforest animals move from one place to another.
48. Build a model to show how rainforests have different layers of plants and trees.
49. Create a display that explains how rainforest plants get pollinated.
50. Make a board that shows how rainforest animals help each other.
51. Set up a project to check the temperature and wetness of the rainforest.
52. Build a model to show the different types of soil in the rainforest.
53. Make a display to show how rainforest people use plants and animals wisely.
54. Create a card game about how rainforest animals survive.
55. Build a model that explains how trees in the rainforest take in carbon.
56. Show how rainforests help keep rivers clean and safe.
57. Create a project to measure the number of different plants and animals in a rainforest.
58. Set up a small space to watch tiny rainforest creatures under a magnifying glass.
59. Track the way rainforest animals behave and move.
60. Build a project to study how animals react to changes in the rainforest.

## **Ocean Biome Projects**

61. Create a model of a coral reef with moving sea creatures.
62. Show how deep-sea pressure works using a fun experiment.
63. Build a model that explains how ocean waters move.
64. Make a display of glowing sea creatures and how they find food.
65. Create an ocean layer chart showing which animals live where.
66. Build a model that explains how whales talk to each other.
67. Set up a small tide pool with shells, rocks, and plants.
68. Make a display to show how trash affects ocean life.
69. Track where ocean animals travel during the year.
70. Build a model that explains how ocean water is becoming more acidic.
71. Create a board that compares different ocean animal survival tricks.
72. Make an experiment to show how ocean water stays in layers.
73. Build a model to explain how plants underwater use sunlight.
74. Show how coral reefs lose color when the ocean changes.
75. Test how fat helps sea animals stay warm in cold water.
76. Make a 3D ocean floor map to show mountains and valleys.
77. Show how some sea creatures glow in the dark.
78. Build a model of how sea turtles know where to go.
79. Make a board to show how ocean animals use colors to hide.
80. Test how to clean tiny plastic pieces from the ocean.

81. Create a soundboard to show how sea animals talk underwater.
82. Build a model to show how fish move smoothly in water.
83. Set up a project to watch how things break down in the ocean.
84. Make a kit to test how salty different ocean waters are.
85. Show how different ocean creatures help each other.
86. Build a model to show how waves shape the shore.
87. Make a project that teaches people why we should protect the ocean.
88. Show how ocean waves move with wind and storms.
89. Create a display about how scientists track ocean animals.
90. Build a model of an underwater volcano.

## **Grassland Biome Projects**

91. Make a model showing how deep different grassland plant roots grow.
92. Create a display to show how animals affect grass growth when they eat.
93. Build a project to explain how fires help grasslands grow.
94. Make a model of prairie dog tunnels and how they live underground.
95. Create a display to show what makes up grassland soil.
96. Build a model to show how grass changes with the seasons.
97. Design a board game about how grassland animals survive.
98. Set up an experiment to show how grassland plants spread their seeds.
99. Track weather changes in the grassland over time.
100. Build a model to show how wind moves across the prairie.
101. Make a hanging display of animals and plants in the grassland food chain.
102. Track where grassland birds travel during the year.
103. Watch and record how grass breaks down after it dies.
104. Build a model to show how people stop soil from washing away in grasslands.
105. Create a board that teaches how to protect grasslands.
106. Count and record different plants and animals in a grassland area.
107. Set up a station to track where grassland animals move.
108. Make a model to show how grasslands help store water.
109. Watch how bees and butterflies visit flowers in the grassland.
110. Create a project showing how grassland animals talk to each other.
111. Design a card game to match grassland plants with their survival tricks.
112. Build a model to show the different layers of soil in the grassland.
113. Make a display about how native people used grasslands.
114. Set up a station to track small weather changes in a grassland area.
115. Make a project to show how plants in the grassland use sunlight.
116. Build a model to explain how grasslands help store carbon.
117. Create a plan to bring back lost grassland plants.
118. Count different types of animals in a grassland area.
119. Watch tiny living things in the grassland under a magnifying glass.
120. Track how animals in the grassland act during different seasons.

## **Tundra Biome Projects (30 Ideas)**

121. Build a model to show frozen soil layers in the tundra.
122. Test how fur and fat keep tundra animals warm in cold weather.

123. Make a model to show how plants grow fast in the short tundra summer.
124. Create a food web showing how tundra animals survive with little food.
125. Design a board to show how tundra plants live in harsh conditions.
126. Build a model to explain how strong winds shape the tundra.
127. Track how tundra animals move during different times of the year.
128. Set up a station to measure tundra temperatures at different times of the day.
129. Create a display showing the different parts of tundra soil.
130. Build a model of how water moves through the tundra.
131. Make a project to teach people how to protect the tundra.
132. Watch and record how things break down slowly in the tundra.
133. Track the movements of animals that live in cold tundra areas.
134. Show how the tundra is changing due to warmer weather.
135. Set up an experiment to grow tundra plants in different conditions.
136. Count the number of plants and animals in a tundra area.
137. Track small temperature changes in a tundra-like space.
138. Build a model to show how the tundra stores carbon.
139. Create a card game to match tundra animals with their survival tricks.
140. Make a display about how native people use tundra plants and animals.
141. Set up a station to identify tundra plants by their shapes and colors.
142. Build a model to show how ice and wind shape tundra land.
143. Track how tundra animals behave in different seasons.
144. Create a board that shows how tundra weather patterns change.
145. Make a project to show how tundra plants make food with little sunlight.
146. Build a model to explain the different layers of tundra soil.
147. Plan a project to help bring back tundra plants that are disappearing.
148. Compare the number of different animals in the tundra over time.
149. Watch tiny tundra creatures under a magnifying glass.
150. Create a board that explains how tundra animals talk to each other.

### **Aquatic Freshwater Biome Projects (30 Ideas)**

151. Build a model of a pond with different living zones.
152. Create an experiment to show how water moves in a stream.
153. Make a model to explain how deep lake water stays colder than the top.
154. Set up a display board showing who eats what in freshwater areas.
155. Build a model to show how wetlands clean dirty water.
156. Make an experiment to explain how rivers slowly wear down the land.
157. Create a project to show how freshwater animals survive in different ways.
158. Test water to see how clean it is in different places.
159. Set up a display of different freshwater plants and what makes them special.
160. Build a model to explain how water moves from lakes and rivers to the ocean.
161. Make a project to teach people how to protect lakes and rivers.
162. Watch tiny pond animals in a small water sample.
163. Show how plants and animals break down in freshwater places.
164. Build a model to show how water bugs grow and change over time.
165. Create a display board about how pollution harms freshwater life.
166. Make a project to show how water moves through the rain cycle.
167. Track how freshwater animals travel from one place to another.

168. Build a model to show how rivers help plants and animals live.
169. Count how many different animals live in a freshwater area.
170. Set up an experiment to see how wetland plants filter water.
171. Look at tiny water creatures under a magnifying glass.
172. Make a model to explain how stream beds form over time.
173. Watch and record how freshwater animals act in different places.
174. Test how much air is in the water from different locations.
175. Set up an experiment to track how fast freshwater plants grow.
176. Build a model to show how lake zones have different plants and animals.
177. Create a project to help bring back lost freshwater areas.
178. Test how clear water is in different places using a simple kit.
179. Make a pyramid model showing who eats what in a freshwater ecosystem.
180. Build a model to explain how wetlands control water flow.

### **Boreal Forest Biome Projects (30 Ideas)**

181. Create a model to show how pine trees stay green all year.
182. Set up a display of the different layers in boreal forest soil.
183. Make a project to show how forest animals survive cold winters.
184. Create a mobile to show who eats what in the boreal forest.
185. Build a model to show how fires help some trees grow.
186. Make a tree ring model to show how trees grow each year.
187. Track where animals in the boreal forest move each season.
188. Watch and record how leaves and plants break down in the forest.
189. Track temperature changes in a boreal-like area over time.
190. Build a model to explain how forests store and filter water.
191. Create a project to teach people how to protect boreal forests.
192. Count and record how many different plants and animals live in the forest.
193. Set up a display showing how boreal animals survive in cold weather.
194. Build a model to explain how trees in the forest store carbon.
195. Make a project to show how to tell different forest plants apart.
196. Track small temperature changes in a boreal forest area.
197. Follow where forest animals go and how they act.
198. Build a model to explain how soil layers form in a boreal forest.
199. Create a plan to help save and restore boreal forests.
200. Make a project to show how forests help people and animals.

### **Tundra Biome Projects**

1. Build a model to show how frozen ground moves in the tundra.
2. Study how tundra plants change color to survive.
3. Make a model to show how animals store fat in cold places.
4. Create a display to show how plants in the tundra sleep during cold months.
5. Set up a station to show how nutrients move in the tundra.
6. Study tiny habitats in the tundra.
7. Build a model to show cracks that form in frozen ground.
8. Demonstrate how tundra plants make more of themselves.
9. Set up a station to study how animals sleep through the winter.

10. Observe how the soil in the tundra changes with temperature.
11. Build a model to show how tundra plants survive the cold.
12. Make a display of how tundra animals mark their land.
13. Set up a station to study how tundra plants compete.
14. Observe how tiny life forms help tundra plants get nutrients.
15. Build a model to show how tundra animals use color to hide.
16. Demonstrate how fast tundra plants grow.
17. Set up a station to study tiny organisms in the tundra.
18. Observe how tundra plants slowly take over new areas.
19. Build a model to show how tundra animals find food.
20. Demonstrate how tundra plants spread seeds and grow.
21. Set up a station to see how tundra soil forms.
22. Study how tundra plants change with the seasons.
23. Build a model to show how tundra animals live in groups.
24. Make a display to show how tundra plants handle stress.
25. Set up a station to study how things break down in the tundra.
26. Observe how animals and plants in the tundra affect each other.
27. Build a model to show how tundra animals survive the cold.
28. Create a display of different tundra plant groups.
29. Set up a station to study how tundra ecosystems stay balanced.
30. Observe and measure the different types of life in the tundra.