Tessellation Projects For High School Students

Here are the useful Tessellation Projects For High School Students:

Art-Based Tessellation Projects

- 1. Draw animal shapes that lock together like puzzle pieces.
- 2. Paint a big mural in the school hall with linked shapes and bright colors.
- 3. Sketch a repeating pattern using your favorite video game characters.
- 4. Draw linked shapes that change from one animal to another.
- 5. Create a design that repeats your sports team mascot.
- 6. Make a storybook where each page's pictures connect in a repeated pattern.
- 7. Design fabric prints with linked shapes for cool clothes.
- 8. Draw your school mascot over and over for a sports event banner.
- 9. Sketch bugs and insects that snap together without gaps.
- 10. Draw shapes that look different when flipped upside down.
- 11. Use your school's initials or logo to make a linked design.
- 12. Chalk a huge tessellation on the playground floor.
- 13. Make a pattern with only triangles and hexagons.
- 14. Draw a comic strip where each panel's shapes lock in a repeating design.
- 15. Sketch sea creatures that link to form an underwater scene.
- 16. Draw a pattern inspired by a famous painting you love.
- 17. Create a design that uses light and dark areas to show positive and negative space.
- 18. Color a pattern that flows through all the colors of the rainbow.
- 19. Draw linked shapes of your favorite foods.
- 20. Sketch weather symbols—like suns, clouds, and raindrops—in a repeating pattern.

- 21. Create an optical illusion pattern that seems to move as you look.
- 22. Draw shapes that show each season—spring flowers, summer suns, fall leaves, winter snowflakes.
- 23. Use characters from your favorite book to make a repeating design.
- 24. Tell a short story by linking simple shapes in order.
- 25. Draw shapes that start small and grow bigger across the page.

Math and Geometry Tessellation Projects

- 26. Measure each angle in a pattern to learn its rules.
- 27. Make a design that shows different lines of symmetry.
- 28. Show reflections by flipping shapes in your pattern.
- 29. Fit regular polygons—like squares and triangles—together cleanly.
- 30. Make a tessellation using only right angles.
- 31. Show the Fibonacci sequence by linking shapes in that order.
- 32. Combine exactly three shapes to form one repeating pattern.
- 33. Create an illusion by using math rules for each link.
- 34. Draw your tessellation on different coordinate grids.
- 35. Show how triangles can join to make new shapes.
- 36. Make a simple fractal by repeating a shape in smaller copies.
- 37. Draw linked shapes that all have the same area.
- 38. Color your pattern using number steps that match colors.
- 39. Show how area and perimeter change in a linked design.
- 40. Use prime numbers to plan your repeating pattern.
- 41. Draw only parallelograms with set angles in your design.
- 42. Show sliding, turning, and flipping moves in one pattern.

- 43. Color a multiplication table so it repeats as a design.
- 44. Use ideas from Islamic art to make your pattern.
- 45. Arrange circles so they fill the page with no gaps.
- 46. Show a geometry rule by drawing shapes that prove it.
- 47. Build a design based on Pascal's triangle numbers.
- 48. Link different kinds of triangles in one pattern.
- 49. Show special properties of regular polygons in your design.
- 50. Draw shapes so each corner adds up to 360 degrees.

Digital/Technology Tessellation Projects

- 51. Use simple computer code to draw a tessellation.
- 52. Make an animation where shapes move across the screen in a pattern.
- 53. Design a 3D model of linked shapes to print on a 3D printer.
- 54. Create a pattern that changes color when you play sounds.
- 55. Draw a pixel art tessellation like in old video games.
- 56. Build an interactive pattern where clicking changes the shapes.
- 57. Take photos of real objects and link them into a repeating design.
- 58. Use augmented reality to place your tessellation in the real world.
- 59. Include QR codes as part of your linked pattern.
- 60. Design phone wallpapers with cool repeating shapes.
- 61. Make a tessellation using only keyboard symbols and letters.
- 62. Create a website background that changes with mouse movement.
- 63. Tell a story in a digital comic where panels link in a pattern.
- 64. Use coding loops to repeat shapes automatically.

- 65. Design a pattern that looks different each time you reload the page.
- 66. Draw perfect mirror images with digital tools.
- 67. Make a video game level background out of your tessellation.
- 68. Animate your pattern in a simple way.
- 69. Mix real photos and digital drawing in a linked design.
- 70. Design app icons that repeat in a pattern.
- 71. Show music notes or sound waves in a digital tessellation.
- 72. Use vector graphics so your pattern can grow without losing shape.
- 73. Draw shapes that hint at how computer memory works.
- 74. Use data charts as part of your repeating design.
- 75. Write a small program that shows math ideas through linked shapes.

Cultural and Historical Tessellation Projects

- 76. Draw a pattern inspired by ancient Egyptian art.
- 77. Make a tessellation using old quilting block designs.
- 78. Use patterns from different world cultures to link shapes.
- 79. Draw shapes inspired by Native American art styles.
- 80. Use ancient Greek architecture patterns in your design.
- 81. Include symbols from your family history in a linked pattern.
- 82. Draw fabric patterns from Japan in a repeating design.
- 83. Use Islamic art rules to make a geometric pattern.
- 84. Show a historical event through a linked design.
- 85. Include symbols from old writing systems in your pattern.
- 86. Draw African design patterns in a repeating layout.

- 87. Use shapes from famous old buildings in your design.
- 88. Include symbols from world religions in a linked pattern.
- 89. Base your tessellation on old maps and their symbols.
- 90. Draw patterns like medieval stained glass windows.
- 91. Use Celtic knot patterns in a repeating design.
- 92. Include symbols from Mayan or Aztec art in your pattern.
- 93. Show how writing changed over time with linked shapes.
- 94. Draw Chinese art patterns in your design.
- 95. Use old textile patterns in a repeating layout.
- 96. Design a tessellation inspired by Roman mosaic floors.
- 97. Link patterns from many time periods in one design.
- 98. Use Indian rangoli designs to form a linked pattern.
- 99. Show how money art changed over time with shapes.
- 100. Include old map styles in your repeating design.

Science-Related Tessellation Projects

- 101. Draw cell shapes—like animal cells—in a linked pattern.
- 102. Use crystal shapes found in minerals to repeat in a design.
- 103. Draw molecules and link them in a tessellation.
- 104. Show patterns from the periodic table in a linked design.
- 105. Use plant cell parts—like leaves—to form a pattern.
- 106. Draw DNA base pairs in a repeating layout.
- 107. Show solid, liquid, and gas states through linked shapes.
- 108. Sketch materials under a microscope in a repeated design.

- 109. Draw animal groups—like flocks—linking in a pattern.
- 110. Show the water cycle steps in a linked sequence of shapes.
- 111. Draw weather patterns—like clouds and rain—in a tessellation.
- 112. Show the solar system orbits in a repeated design.
- 113. Draw rock layers or types in a linked pattern.
- 114. Sketch sound waves repeating across the page.
- 115. Show plant growth patterns—like leaves—in a tessellation.
- 116. Draw different chemical bonds in a linked design.
- 117. Show who eats whom in a food web pattern.
- 118. Use shapes to represent energy types in a repeating layout.
- 119. Draw light waves in a linked wave pattern.
- 120. Sketch earth biomes—like deserts and forests—in a tessellation.
- 121. Show how populations grow over time in a linked design.
- 122. Draw genetics—like traits passing down—in a repeating pattern.
- 123. Sketch how electricity flows in a circuit-style design.
- 124. Show simple machines—like levers—in a linked layout.
- 125. Draw animal skin patterns—like scales or fur—as a tessellation.

Environmental and Nature Tessellation Projects

- 126. Trace leaf shapes from your yard and link them.
- 127. Draw cloud types—like puffy or wispy—in a repeating pattern.
- 128. Show a butterfly life cycle in linked shapes.
- 129. Sketch flower petals repeating in a design.
- 130. Draw river paths in a flowing tessellation.

- 131. Show tree rings as linked circles.
- 132. Sketch local birds in flight in a repeating layout.
- 133. Draw mountains forming over time in a linked design.
- 134. Show ocean waves in a rolling tessellation.
- 135. Draw honeycomb shapes like bees make in a pattern.
- 136. Sketch snowflakes—each unique—linked in a design.
- 137. Show how forests change through the seasons.
- 138. Draw seeds sprouting into plants in a linked series.
- 139. Sketch animal migration paths in a repeating layout.
- 140. Show wind, solar, and water energy symbols in a pattern.
- 141. Draw world rainfall maps in a linked design.
- 142. Sketch feather shapes linked in a design.
- 143. Show soil layers—like topsoil and clay—in a tessellation.
- 144. Draw coral reef structures in a repeated pattern.
- 145. Sketch animal footprints—like birds or deer—in a linked layout.
- 146. Show the carbon cycle steps in a repeating design.
- 147. Draw natural disaster symbols—like tornadoes—in a pattern.
- 148. Sketch star constellations in a linked layout.
- 149. Show climate zones—like tropics and poles—in a tessellation.
- 150. Draw camouflage patterns from animals in a repeating design.

Craft and 3D Tessellation Projects

- 151. Fold paper models that lock into 3D shapes.
- 152. Use origami folds to make linked paper patterns.

- 153. Cut cardboard pieces that stack into a tessellation.
- 154. Shape clay tiles that snap together in a design.
- 155. Sew fabric pieces that link for a pillow pattern.
- 156. Carve wooden puzzle pieces that fit in a repeated design.
- 157. Glue bottle caps or buttons into a tessellation art piece.
- 158. Twist straws and pipe cleaners into 3D linked shapes.
- 159. Lay stones or bricks for a garden path tessellation.
- 160. Layer colored sand in clear bottles to show linked shapes.
- 161. Glue popsicle sticks so they lock into a pattern.
- 162. Print 3D pieces that snap together in a design.
- 163. Cut foam shapes that interlock in a repeating layout.
- 164. Use recycled materials—like plastic—to build a tessellation.
- 165. Wrap string around pegs to draw linked shapes.
- 166. Design puzzle pieces and fit them into a pattern.
- 167. Thread beads to form a linked design.
- 168. Glue small tiles for a tiled mosaic pattern.
- 169. Roll and shape paper strips for a quilled tessellation.
- 170. Layer paper sheets to make 3D linked shapes.
- 171. Carve wooden shapes that lock into a design.
- 172. Felt wool in different colors to form a pattern.
- 173. Place magnetic shapes on a board in a linked layout.
- 174. Layer colored rice in jars to show a repeating pattern.
- 175. Stamp rubber stamps into a linked design.

Real-World Application Tessellation Projects

- 176. Plan floor tile patterns for your school hall.
- 177. Design sidewalk shapes for the local park.
- 178. Make garden stepping stones with linked patterns.
- 179. Plan table-top designs for the cafeteria.
- 180. Design seat cover prints for school buses.
- 181. Paint community center walls with a repeating mural.
- 182. Choose safe playground surface shapes in a linked layout.
- 183. Draw carpet patterns for the school library.
- 184. Design notebook covers with linked shapes.
- 185. Decorate student lockers with a repeating design.
- 186. Plan gym floor lines that form a tessellation.
- 187. Choose tile patterns for the school bathrooms.
- 188. Design bulletin board borders with linked shapes.
- 189. Paint hospital waiting rooms with a calm repeating mural.
- 190. Draw designs for classroom divider screens.
- 191. Plan stage backdrops with linked shapes for plays.
- 192. Create t-shirt prints for fundraisers using a pattern.
- 193. Paint street art for a town festival in a tessellation.
- 194. Design window displays for local shops.
- 195. Plan markings for stadium seating sections.
- 196. Decorate fence panels around the school with linked shapes.
- 197. Paint dance floor designs for the school dance.
- 198. Design sports team uniforms with repeating patterns.

Collaborative and Community Tessellation Projects

- 199. Let each student draw one piece for a giant linked design.
- 200. Take photos of friends and link them in a pattern.
- 201. Combine all initials into one repeating design.
- 202. Show cultural diversity by linking symbols from each student.
- 203. Have each pupil paint a hobby icon to link in a mural.
- 204. Make a design that can be put together in different ways.
- 205. Let each classmate design one shape in a repeated pattern.
- 206. Link ideas from different subjects into one tessellation.
- 207. Show community helpers—like firefighters—in a linked design.
- 208. Connect different school clubs with symbols in a pattern.
- 209. Fit pieces from each grade into one big tessellation.
- 210. Draw local landmarks and link them in a design.
- 211. Show school values—like kindness—linked in symbols.
- 212. Link sports icons from each team in one design.
- 213. Show how different languages connect in a pattern.
- 214. Use friendship symbols—like handshakes—in a linked layout.
- 215. Draw career symbols—like tools and books—in a tessellation.
- 216. Link school history events in order with shapes.
- 217. Show local ecosystem parts—like plants and animals—in a design.
- 218. Connect art, music, and dance symbols in a repeating pattern.
- 219. Show how different subjects help each other in a linked layout.
- 220. Draw world culture symbols—like flags—in a connected design.
- 221. Link musical instruments or sounds in a pattern.

- 222. Show historical figures connected by linked shapes.
- 223. Draw community members—like doctors and bakers—in a pattern.

Innovative and Unique Tessellation Projects

- 224. Make a pattern that changes color under different lights.
- 225. Draw shapes that hide a secret message when they link.
- 226. Design pieces that you can move around to tell different stories.
- 227. Use glow-in-the-dark paint for a nighttime linked design.
- 228. Draw shapes that form new pictures when you stand far away.
- 229. Use recycled lunch materials—like paper wrappers—for your pattern.
- 230. Paint shapes that change color when they get warm or cold.
- 231. Create simple games using linked shapes as pieces.
- 232. Include levers or pulleys in your pattern for simple machines.
- 233. Make shapes that play notes when you tap them.
- 234. Draw an illusion that moves when you walk by.
- 235. Use water to make parts of your pattern disappear and reappear.
- 236. Cast shadows from small sculptures to form a linked design.
- 237. Draw frames that become a flipbook animation in a pattern.
- 238. Fold pieces that turn into useful objects—like small boxes.
- 239. Use leaves or sticks that will break down naturally in your design.
- 240. Show simple math problems solved by linked shapes.
- 241. Design pieces that can snap together to make maps.
- 242. Use food—like fruit slices—to form an edible pattern.
- 243. Draw shapes that tell time by casting shadows.

- 244. Show survey results—like favorite colors—through linked shapes.
- 245. Create a class "currency" using linked pattern pieces.
- 246. Design wearable accessories—like brooches—that link together.
- 247. Make puzzle pieces that lock into a single pattern.
- 248. Show balance and weight by linking shapes with hanging pieces.
- 249. Draw linked shapes that form a small musical instrument.
- 250. Create a pattern that shows how things can balance on a single point.