

Bee Hotels Evaluation Rubric

| Criteria | Excellent (4) | Good (3) | Satisfactory (2) | Needs Improvement (1) |
|---|---|---|--|---|
| Design and Creativity | Demonstrates exceptionally creative and innovative design with thoughtful consideration of both 3D printed and woodworking elements. | Shows creative design with a good balance between 3D printed and woodworking components. | The design is satisfactory but lacks innovation or integration between 3D printing and woodworking. | The design is unoriginal, lacks creativity, and shows minimal integration of 3D printing and woodworking. |
| Technical Proficiency in Tinkercad | Demonstrates exceptional command of advanced Tinkercad features, showcasing a high level of technical skill. | Shows good proficiency in using advanced Tinkercad features for complex designs. | Demonstrates basic proficiency in Tinkercad but needs help with more advanced features. | Shows minimal understanding of Tinkercad beyond basic functions. |
| 3D Printing Quality | Produces 3D-printed components with exceptional quality, meeting or exceeding design specifications. | 3D printed components are of good quality, meeting most design specifications. | Printed components are acceptable but may show minor imperfections or deviations from design. | 3D printed components have significant flaws, impacting functionality or aesthetics. |
| Woodworking Craftsmanship | Demonstrates exceptional woodworking skills with precise cuts, smooth finishes, and attention to detail. | Shows good woodworking skills with mostly precise cuts and satisfactory finishes. | Woodworking skills are basic, with some imprecise cuts and rough finishes. | Displays poor woodworking skills, leading to an unsatisfactory finish. |
| Integration of 3D Printing and Woodworking | Achieves a seamless integration of 3D printed and woodworking components, creating a cohesive and functional product. | Integrates 3D printed and woodworking elements well, with minor areas for improvement. | Integration is present but lacks cohesion or exhibits some functional challenges. | Integration is poor, resulting in a disjointed or non-functional product. |
| Project Documentation and Reflection | Provides comprehensive documentation of the entire project, including progress, challenges, and thoughtful reflections. | Documents the project adequately, highlighting key aspects of progress and challenges. | Provides basic documentation, lacking depth in reflections or detailed progress tracking. | Documentation is minimal, with little insight into project progress or challenges. |
| Installation and Community Impact | Successfully installs bee hotels in designated locations, considering aesthetics and functionality, leading to a positive impact on the school community. | Installs bee hotels effectively, with attention to aesthetics, functionality, and a positive impact on the community. | Installation is acceptable but may have minor issues with aesthetics, functionality, or community impact. | Installation is poorly executed, with significant aesthetics, functionality, or community impact issues. |
| Overall Presentation and Communication | Presents the project confidently, effectively communicating the design choices, challenges, and overall impact to the audience. | Presents the project clearly, with good communication of design choices, challenges, and impact. | Presentation is acceptable but may lack clarity or confidence in communicating key aspects of the project. | The presentation is unclear, lacks confidence, and fails to communicate key aspects of the project effectively. |