



Check your readiness to submit your project to the Biomimicry Youth Design Challenge by reflecting on how well you have addressed the criteria judges will be using to evaluate entries and select award winners. For additional detail, you may also want to refer to the Challenge Rubric.

Criteria	Reflection Questions	Self-Assessment
Problem Definition	How clearly has your team described the design problem you are solving within the challenge theme?	<input type="checkbox"/> Our argument is clear and supported by convincing evidence. <input type="checkbox"/> Our argument is clear and supported by adequate evidence. <input type="checkbox"/> Our argument is unclear and/or evidence is insufficient or lacking.
	How clearly has your team described the criteria and constraints for a successful solution?	<input type="checkbox"/> Our description is clear and comprehensive. <input type="checkbox"/> Our description is clear. <input type="checkbox"/> Our description is weak or incomplete.
Discovering Natural Models	How well has your team explained why you selected your chosen biological models?	<input type="checkbox"/> Our argument is detailed and supported by evidence. <input type="checkbox"/> Sound argument with/without evidence. <input type="checkbox"/> Explanation unclear and/or evidence is lacking.
	How clearly and completely has your team described the relevant natural history of your biological model(s) and how its strategy(ies) work?	<input type="checkbox"/> Our descriptions are detailed, accurate, and supported by references. <input type="checkbox"/> Our descriptions are accurate and supported by references. <input type="checkbox"/> Our descriptions are weak or inaccurate or missing references.
Design Solution	How effectively has your team communicated what your solution does, how it works, and how nature inspired it?	<input type="checkbox"/> Our description is thorough and supported with detailed images. <input type="checkbox"/> Our description is adequate and supported by images. <input type="checkbox"/> Our description is vague, incomplete, and/or lacks supporting images.
	How well does your team's solution address the problem you set out to solve?	<input type="checkbox"/> We have strong supporting evidence that our design could solve the problem. <input type="checkbox"/> We have provided sound arguments that the design solves the problem. <input type="checkbox"/> We have not clearly demonstrated that the design solves the problem.
	How innovative is your biomimicry solution?	<input type="checkbox"/> Our solution is highly original. <input type="checkbox"/> Our solution demonstrates creative thinking. <input type="checkbox"/> Our solution copies existing ideas or could have been arrived at without biomimicry.
Iterative Design	How effectively has your team used testing, and/or feedback from prospective users, stakeholders, or experts to evaluate and improve your design?	<input type="checkbox"/> We have engaged in multiple rounds of testing, feedback, and refinement using models or prototypes of our solution. <input type="checkbox"/> We have modeled or prototyped our solution and used data and feedback to refine the design or define next steps. <input type="checkbox"/> We have not tested our model or engaged in other research to assess how it works.



Systems Thinking	How thoroughly has your team considered the impact of social, environmental, and economic systems on the success of your solution and whether the solution may produce unintended consequences?	<input type="checkbox"/> We have carefully considered the effects of system conditions and used this information to create the most effective design, identifying unknowns and areas for additional research. <input type="checkbox"/> We have considered the effects of system conditions and taken steps to address these factors in the design. <input type="checkbox"/> We have not considered the effects of these systems on our design.
Overall Presentation	How clearly has your team presented your biomimicry design process, reasons for decisions made, and key insights along the way?	<input type="checkbox"/> We have clearly communicated all aspects of our design process with detailed supporting materials. <input type="checkbox"/> We have adequately communicated all aspects of our design process. <input type="checkbox"/> Our presentation lacks detail about the design process.
	How neatly have you presented your team's materials?	<input type="checkbox"/> Our materials are professionally presented and free of typos. <input type="checkbox"/> Our materials are well organized and mostly free of typos. <input type="checkbox"/> Disorganization and/or typos inhibit understanding of our materials.
	How completely has your team documented references for all research, claims, and images used?	<input type="checkbox"/> All of our research, claims, and images have full citations. <input type="checkbox"/> All of our research, claims and images have credible references. <input type="checkbox"/> Our research, claims, and images lack references or are not credible.
Collaboration <i>Not judged. Only for self-reflection.</i>	How effectively has your team worked together to take advantage of the unique talents and ideas of all team members?	<input type="checkbox"/> All of our team members contributed their unique talents and collaborated effectively at every step. <input type="checkbox"/> All of our team members contributed and we worked together to make decisions. <input type="checkbox"/> Not all of our team members actively participated or our team did not work together as a group.