



MAKER JOURNAL

Name: _____

Date: _____

Unit: Effects of Structural Gene Changes on Proteins and Traits

Lesson: Design Challenge - Test

Evaluate the organism model prototype built by the team using the checklist below. You may use it multiple times.

Criteria (design requirements)	Constraints (design limitations)
<ul style="list-style-type: none"> <input type="checkbox"/> Model is recognized as the organism of interest <input type="checkbox"/> Model includes at least one mutated trait (due to point mutation) <input type="checkbox"/> Mutated trait should be easily visible (can be exaggerated to make it stand out) <input type="checkbox"/> Model stays intact (does not fall apart) <input type="checkbox"/> Model is portable 	<ul style="list-style-type: none"> <input type="checkbox"/> Model must be built with only the materials provided <input type="checkbox"/> Model must be completed and tested in the given time <input type="checkbox"/> Model must include <u>8 different materials</u> NOT including fasteners or adhesives <input type="checkbox"/> Model must not be secured to the ground in any way

Write down changes that need to be made to the model after using the checklist. Repeat for each iteration.

Test: What improvements must be made to the organism model? What materials can be added/changed/replaced?

Example: Model only has 6 materials; we need 8, so add foam to the wings and feet.