

Name: _____

Date: _____

Project/Unit: Safe Crossings

Lesson: 3

Answer the questions below on the media resources for the lesson.

Variables and Fair Tests

In the baking soda investigation, what are the controlled variables? How does the experimenter control them?

What is the variable the experimenter is measuring?

Why does the experimenter repeat the experiment many times?

What must an experimenter do to make sure an experiment is a fair test?

Come up with your own example of a fair test/experiment below.

Draw sketches of your structure below.

Structure Drawings

Be sure to clearly label the connectors and also show different views of the model (front, back, side, and top).



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List some variables that might affect the structural integrity of your model.

Variables	Potential Effect on Structural Integrity
Length of straws in model	Straws are flexible, might weaken structure

Develop a plan for conducting fair tests on your structure.

Planning/Conducting Fair Tests
<p><i>Consider the variables you identified above. Which one(s) will you control? What will you do to test the structure?</i></p> <p><i>Fair Test #1 Results:(Identify failure points)</i></p> <p><i>Fair Test #2 Results:(Identify failure points)</i></p>