

Egg Drop Design



Team Members _____ Date _____

INSTRUCTIONS

1. **Plan:** Choose the materials for your Egg Drop Model. Sketch and label your initial design in the space below.
2. **Build:** Make your design.
 - Before you test, record the mass of your Egg Drop Model in the Plan and Build section below. Be sure your egg is inside!
3. **Test:** Bring your Egg Drop Model to the test site. After you test, record the results.
4. **Analyze:** Reflect on your design in the Design 1 Analysis (on page 2).

PART 1: DESIGNING AN EGG DROP MODEL

Plan and Build: Draw your design. Record your Egg Drop Model's mass.

Mass of the Egg Drop Model (grams): _____

Describe your design:

Test Results: Record your results in the space below. Sketch or describe what happened to the pod and to the egg when it collided with the ground.

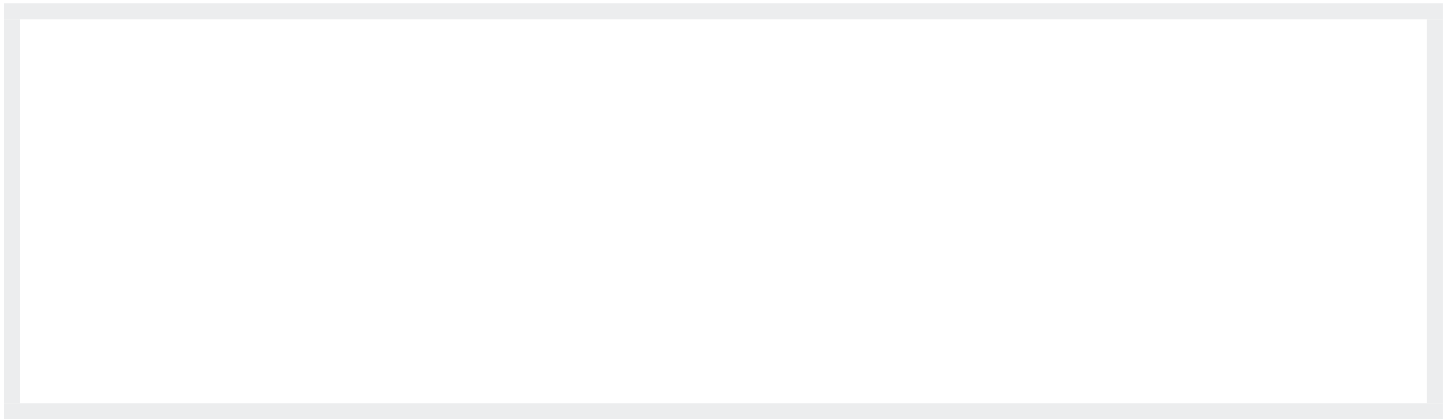
PART 2: ANALYZE YOUR EGG DROP MODEL

Design Successes: Which parts of your design worked? Why do you think they worked?

Design Failures: Which parts of your design did not work? Why do you think they did not work?

PLAN YOUR NEXT ITERATIVE TEST.

Draw and describe your revised design.



What would you change?

Why would you make these changes? Describe the science concepts that support your decisions.
