Name: _	
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Projectile Motion: The Spoon Catapult SPH4C

Materials: plastic spoon

popsicle sticks rubber bands

hot glue sticks + glue gun marshmallows (for launching)

Your Task: Construct a free-standing catapult of your own

design using the materials provided. Note that you will probably want to rebuild, repair, and/or modify your design before it is complete.



Evaluation: (Construction)

You will receive full marks for a catapult that can launch a marshmallow a minimum distance of 1 metre (100 cm = 100%). Marks will be deducted if any part of the catapult (other than the spoon) needs to be held during launch. A 10% bonus will be awarded to the catapult that can launch a marshmallow the furthest.

Evaluation: (Questions)

Answer each of the following questions. Point form is acceptable.

1. What is a projectile?

2. Explain why the projectiles, to travel further, must be launched slightly upward (above the horizontal).

3. Identify <u>at least two</u> decisions you made during your construction (either the initial build or rebuild) that made your catapult more effective.