

“Ooey Gooey Fun! But can we sell this stuff?”

You and your lab partner work in the product design department of “No Name Toy Company”. You have been working on the design of a polymer that has properties similar to Silly Putty®. Today, you are to determine what ratio of reacting polymer components will produce a toy that has maximum bounce. The only 2 materials needed are 50% white glue/water solution and a 4% Borax/water solution. It is up to you how to test for “bounceability”. Summarize your results in a lab report format and be sure to do a thorough job summarizing your experimental procedure.

The 50% white glue/water solution and 4% Borax are premade and located in the fume hoods. Many other materials are available to you. If you don't have something you need in your lab drawers, simply ask and I will try to find the equipment for you. The only restriction on your design is that you may only use a total of 50.0 mL of combined solutions for each of your tests. This will cut down on waste and allow you to conduct more testing.