

Name \_\_\_\_\_  
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Date \_\_\_\_\_  
Algebra II

## *Designing Controlled Experiments*

1. A high school wants to determine if taking a Regents Review course causes students to score higher on the Common Core Geometry Regents Exam. Describe a controlled experiment that can be created to test this hypothesis.
2. A company created a pill that is supposed to reduce the length of the common cold. Describe a controlled experiment to test this hypothesis.
3. A farm is experimenting with a drug to increase the size of its chickens. Describe a controlled experiment that can be performed to see if this drug is effective.
4. Describe how a controlled experiment can be created to examine the effect of ingredient  $X$  in a toothpaste.

5. Todd bought a bag of magic soil at a carnival that is supposed to grow plants without sunlight. Describe a controlled experiment that Todd could create to determine if the magic soil works.
  
6. Milk Makers is a company that makes cookies that are supposed to increase the amount of milk that mothers of newborns produce. Phil believes that the cookies do not increase the amount of milk and that the company is trying to take advantage of women. Describe a controlled experiment that can be performed to determine if Milk Makers cookies are effective.
  
7. Bic is experimenting with a new type of pen that is supposed to last longer than other pens. Describe a controlled experiment that can be created to determine if this type of pen in fact lasts longer.
  
8. A company is marketing a type of razor that is supposed to increase the amount of time between shaving. Describe a controlled experiment that can be created to determine if this razor is effective.