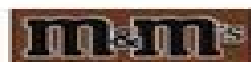


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## Lab (Exponential Growth and Decay)

The purpose of this lab is to provide a model to illustrate exponential growth and decay. This growth and decay, as discussed in class already, can be the model for population growth, growth of cancerous cells in a body, the amount money in a bank based on principal and interest, the number of cell phones in circulation in the United States, the number of eliminated players in a tennis tournament, etc.

In our experiment, we will represent the growth of a cancer cell using M&M's. First, we will focus on modeling exponential growth, then we will change the situation in order to represent exponential decay. You will conduct **up to** 14 trials and record the number of "cancerous cells" in the body.

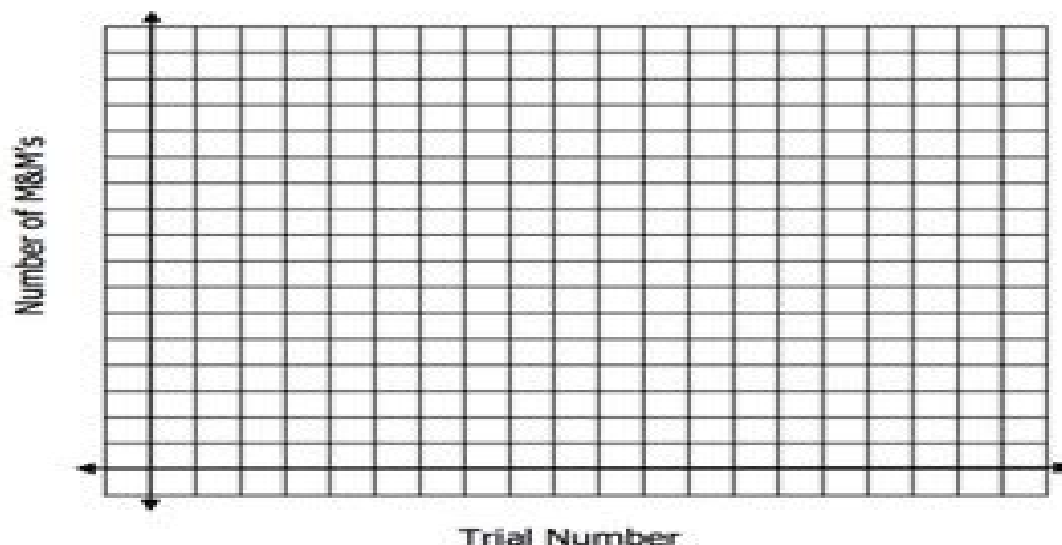
**DO NOT EAT the M&M's until you are done collecting all the data!**

### Exponential Growth Procedures:

1. Place 2 M&M's in a cup. This is trial number 0.
2. Shake the cup and dump the M&M's on the plate/work surface.  
FOR EVERY M&M THAT HAS THE "M" SHOWING, ADD ANOTHER M&M TO YOUR CUP AND THEN RECORD THE NEW POPULATION (if 2 M&M's land face up, add 2 more M&M's to the cup).
3. Repeat Step 2 until you are done with 14 trials **OR** you run out of M&M's.

| Trial #                   | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
|---------------------------|---|---|---|---|---|---|---|---|---|---|----|----|----|----|----|
| # of M&M's (cancer cells) | 2 |   |   |   |   |   |   |   |   |   |    |    |    |    |    |

4. Graph your data (scatterplot). The x-axis should represent the trial number and the y-axis should represent the number of M&M's/cancer cells.



# Lesson 13 Reteach Exponential Growth And Decay

**Lei Shi**



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## **Table of Contents Lesson 13 Reteach Exponential Growth And Decay**

1. Understanding the eBook Lesson 13 Reteach Exponential Growth And Decay
  - The Rise of Digital Reading Lesson 13 Reteach Exponential Growth And Decay
  - Advantages of eBooks Over Traditional Books
2. Identifying Lesson 13 Reteach Exponential Growth And Decay
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Lesson 13 Reteach Exponential Growth And Decay
  - User-Friendly Interface
4. Exploring eBook Recommendations from Lesson 13 Reteach Exponential Growth And Decay
  - Personalized Recommendations
  - Lesson 13 Reteach Exponential Growth And Decay User Reviews and Ratings
  - Lesson 13 Reteach Exponential Growth And Decay and Bestseller Lists
5. Accessing Lesson 13 Reteach Exponential Growth And Decay Free and Paid eBooks
  - Lesson 13 Reteach Exponential Growth And Decay Public Domain eBooks
  - Lesson 13 Reteach Exponential Growth And Decay eBook Subscription Services
  - Lesson 13 Reteach Exponential Growth And Decay Budget-Friendly Options

6. Navigating Lesson 13 Reteach Exponential Growth And Decay eBook Formats
  - ePub, PDF, MOBI, and More
  - Lesson 13 Reteach Exponential Growth And Decay Compatibility with Devices
  - Lesson 13 Reteach Exponential Growth And Decay Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Lesson 13 Reteach Exponential Growth And Decay
  - Highlighting and Note-Taking Lesson 13 Reteach Exponential Growth And Decay
  - Interactive Elements Lesson 13 Reteach Exponential Growth And Decay
8. Staying Engaged with Lesson 13 Reteach Exponential Growth And Decay
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Lesson 13 Reteach Exponential Growth And Decay
9. Balancing eBooks and Physical Books Lesson 13 Reteach Exponential Growth And Decay
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Lesson 13 Reteach Exponential Growth And Decay
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Lesson 13 Reteach Exponential Growth And Decay
  - Setting Reading Goals Lesson 13 Reteach Exponential Growth And Decay
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Lesson 13 Reteach Exponential Growth And Decay
  - Fact-Checking eBook Content of Lesson 13 Reteach Exponential Growth And Decay
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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