

Radioactive Decay Statistics

In today's lab we are simulating the decay of a radioactive isotope of an element into a more stable form. This is represented by one color of candy (M&M) labeled B undergoing transmutation (trans = across, mutation = change) into another color of candy labeled A. During this process we monitor the percent of the color B remaining in the beaker and use a graph to find the Half-Life of this color in the beaker.

Procedure:

1. Decide which colors are type A and type B for your experiment. Then count out 50 of each and mix into one beaker. Count out another 100 pieces of type A into a separate beaker to use as replacements.
2. Perform Run 1: Blindly remove one piece from the A & B mixture. Replace it with a Type A, no matter what color came out. Mix the candy gently. Repeat until 10 pieces had been taken out. Record results from this Run in the data table below.
3. Repeat step 2 for Runs 2 through 10. In each Run, 10 pieces are removed from the mixture of colors and always replaced with a type A. Record the results for each run in the data table below.
4. Label numbers 1 through 10 Runs on the x-axis of the semi-log graph paper. Label the percentage of Type B Remaining on the y-axis of the graph paper.
 - a. Note: y-axis starts at 1% and is not linear.
5. Plot % Type B Remaining for each Run.
6. Draw the best straight line through the points. From the graph, read the time or Run value where the straight line crosses the 50% line. This is the Type B Half-Life.

Type B Half-Life: 6.5

Data: fill this out for the data given and graph it on the next page

| Run | # Type A removed | # Type B Removed | # Type B Remaining | % Type B Remaining |
|-----|------------------|------------------|--------------------|--------------------|
| 1 | 6 | 4 | 46 | 92 |
| 2 | 5 | 5 | 41 | 82 |
| 3 | 7 | 3 | 38 | 76 |
| 4 | 6 | 4 | 34 | 68 |
| 5 | 5 | 5 | 29 | 58 |
| 6 | 7 | 3 | 26 | 52 |
| 7 | 7 | 3 | 23 | 46 |
| 8 | 8 | 2 | 21 | 42 |
| 9 | 9 | 1 | 20 | 40 |
| 10 | 9 | 1 | 19 | 38 |

Modeling Radioactive Decay Lab Answers

D Kirk

A decorative graphic element consisting of a light blue horizontal bar with a rounded right end, and a red circular glow behind it.

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U.S. Government Research & Development Reports ,1970 Transactions of the American Nuclear Society American Nuclear Society,1989 **Holt Science and Technology** Holt Rinehart & Winston,2004-02 *Bibliography of Scientific and Industrial Reports* ,1970 *Energy Research Abstracts* ,1992 Includes all works deriving from DOE other related government sponsored information and foreign nonnuclear information

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