

Lab 3: Kitchen Countertop Chemistry – Chemical Change, Radioisotopes, and Lipids
Worksheet
(Attach photos to the last sheet)

Data Sheets

Enter the data and mark the graphs on Word and resubmit it as part of the assignment.

45 M & Ms		
Half-life	# of Undecayed Atoms	# of Decayed Atoms
0	45 M & Ms	0
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		

90 M & Ms		
Half-life	# of Undecayed Atoms	# of Decayed Atoms
0	90 M & Ms	0
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		

135 M & Ms		
Half-life	# of Undecayed Atoms	# of Decayed Atoms
0	135 M & Ms	0
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

Graph Paper

45 M&Ms

X
45
44
44
43
42
41
40
39
38
37
36
35
34
33
32
31
30
29
28
27
26
25
24
22

[illegible]

[illegible]

Question: Remember this experiment represents the “decay” that elements have over time to different radioisotopes of the element (the basis of carbon dating of fossils). The slope of these line graphs represents the rate of change. Based on the results and graphs you have recorded what effect does the “size” (number of atoms) in a fossil have on the rate of decay? **Explain your answer based on your results.**

Photos of the results of Procedure B and C.

The boxes will increase in size to fit the pictures

Procedure B: “Selfie” holding your Dancing Spaghetti container

Procedure C: “Selfie” holding your Oil and Water Do Not Mix But They Can Create

'Fireworks' container