

The Measuring of Time

2026 Pathfinder STEM Project

April 26th, 2026

Please fill this form out and bring it with your project to be displayed at the Pathfinder Fair

Your Name Herb Hainey

The Name of your Pathfinder club. Northern Area Coordinator

Please explain your time measuring STEM project. Attach additional pages, graphs, photos as needed to show what you did to measure time. Bring your time measuring device to the Pathfinder Fair if possible,

What was your hypothesis? That my shampoo would last from January 14th until after the Pathfinder fair

How did you test your hypothesis?
I weighed my shampoo bottle every few days

Please show the data you collected while testing your hypothesis:
(Please have at least three sets of test data. Attach additional pages if needed)

1) See graph

2)

3)

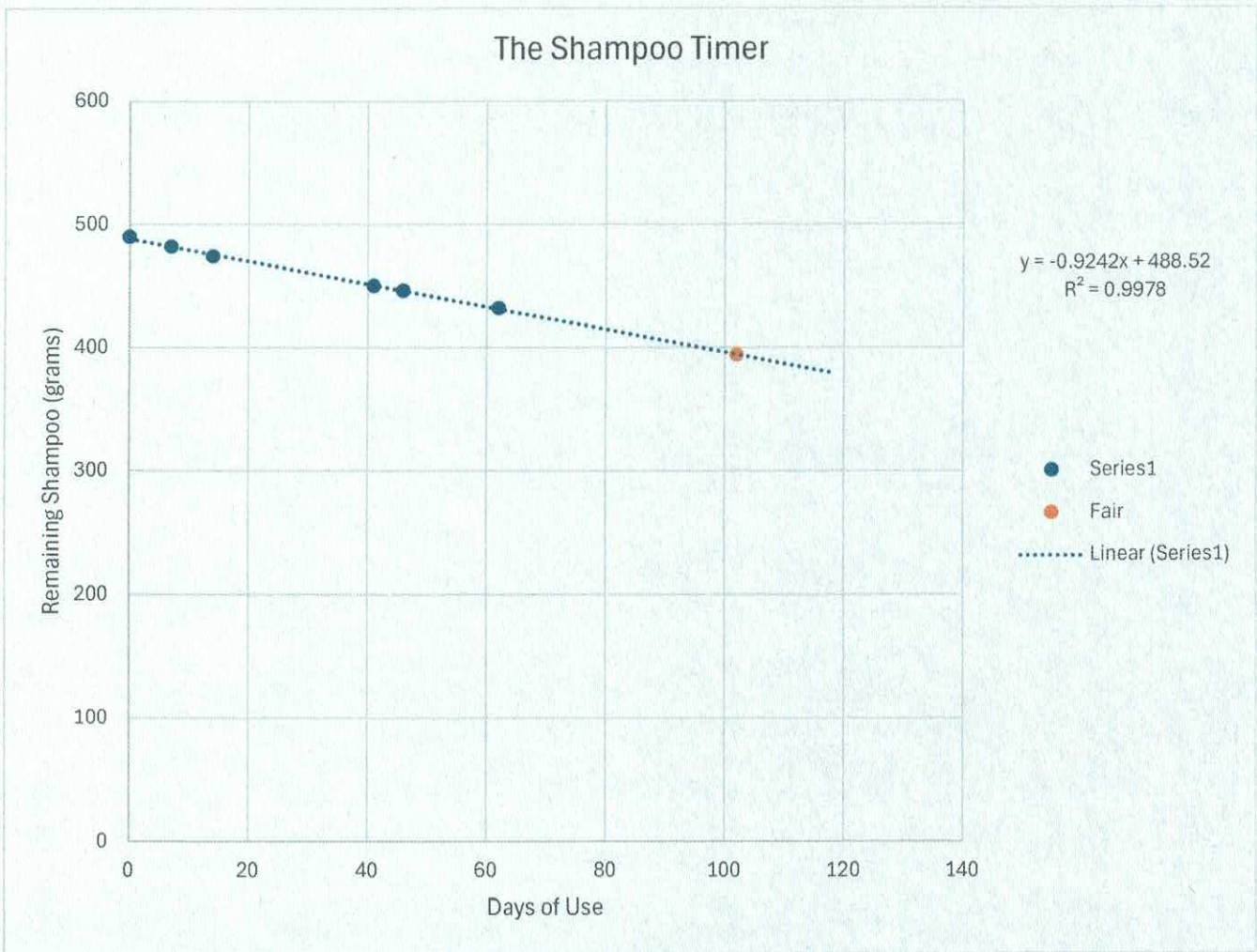
List the reasons you think your hypothesis was proven or disproven

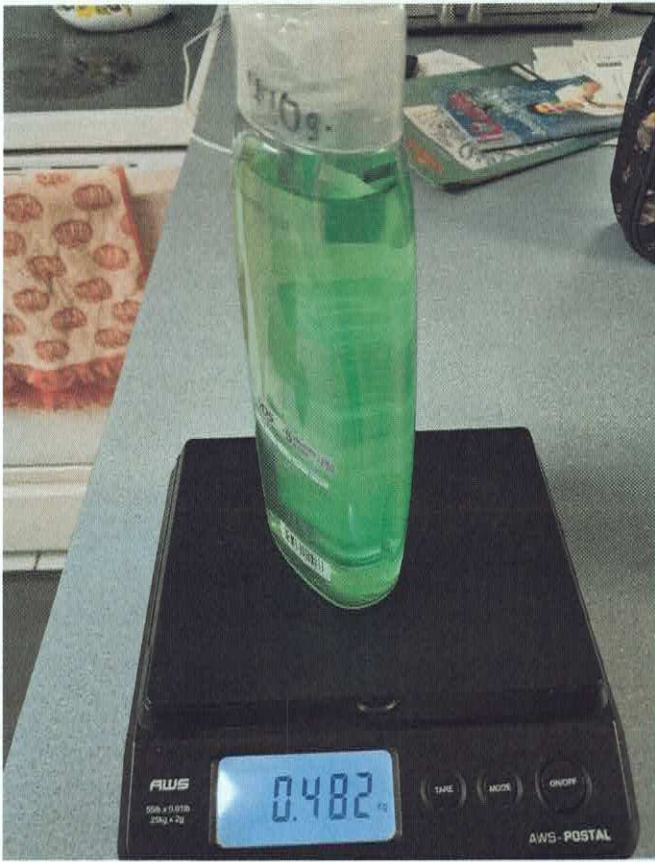
The observed data points all lie on a straight line ($R^2 = 0.9978$)

What have you learned from this project? Are there any improvements you would suggest for others who might want to try and make a similar time measuring device?

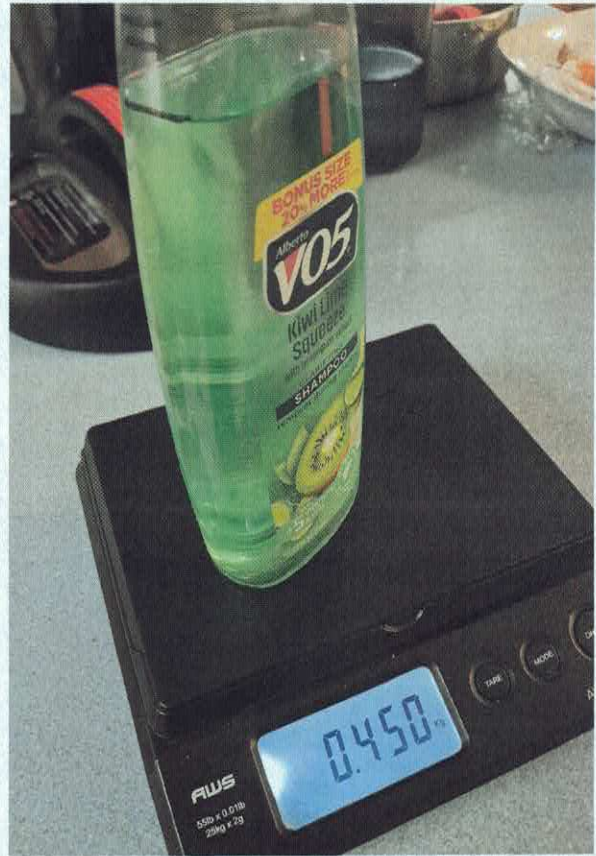
I learned that my rate of shampoo use is very predictable, and it may last me a year or more.

n	date	weight	days
0	14-Jan-2026	490	0
1	21-Jan-2026	482	7
2	28-Jan-2026	474	14
3	24-Feb-2026	450	41
4	1-Mar-2026	446	46
5	17-Mar-2026	432	62
	26-Apr-2026	394	102

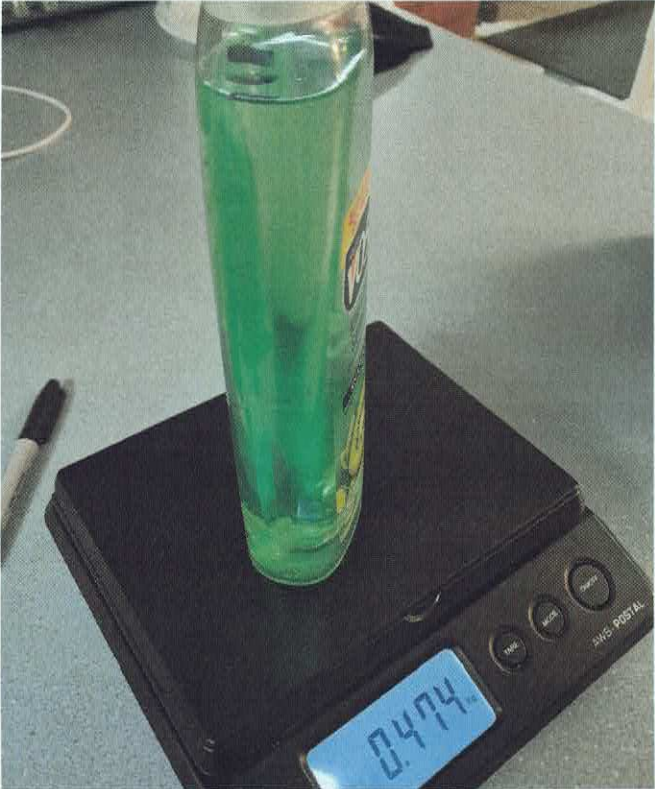




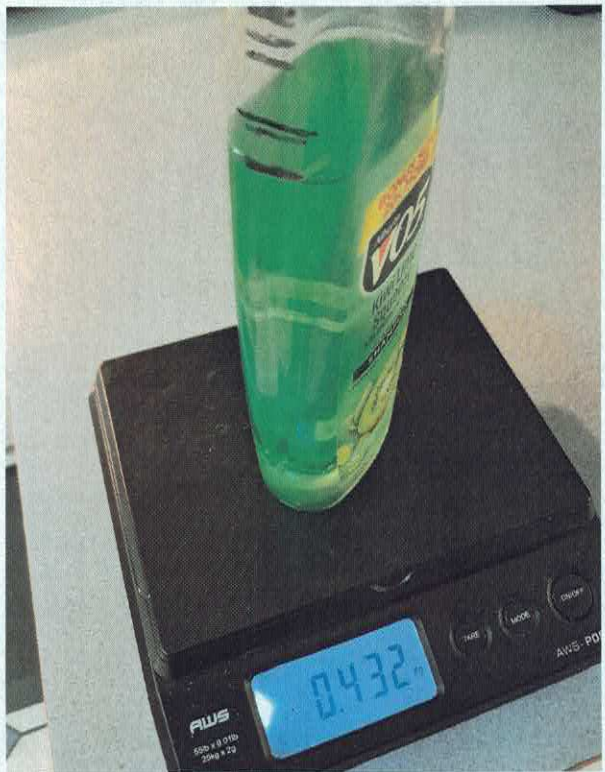
Day 7



Day 41



Day 14



Day 62