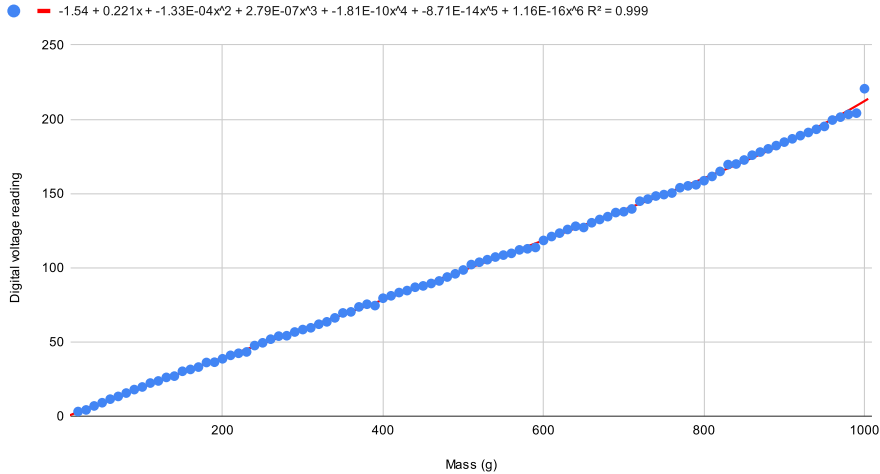




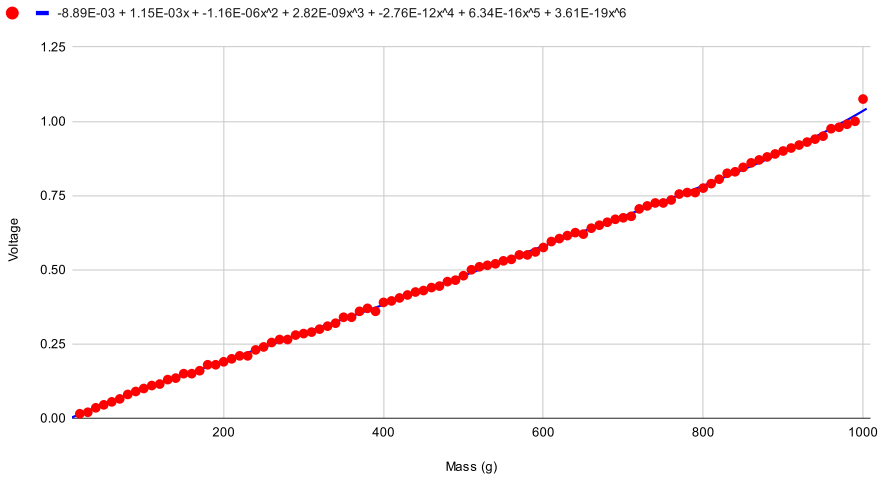


igitalRead(TOGC digital	analog	digital1	analog1	digital avg	analog avg
20	3.87	0.02	2.31	0.01	3.09
30	4.12	0.02	4.24	0.02	4.18
40	7.22	0.04	6.51	0.03	6.865
50	8.39	0.04	9.67	0.05	9.03
60	10.69	0.05	12.2	0.06	11.445
70	12.08	0.06	14.48	0.07	13.28
80	15.7	0.08	15.39	0.08	15.545
90	17.94	0.09	17.82	0.09	17.88
100	19.74	0.1	19.55	0.1	19.645
110	22.42	0.11	22.17	0.11	22.295
120	23.43	0.11	23.96	0.12	23.695
130	26.03	0.13	26.16	0.13	26.095
140	26.22	0.13	27.69	0.14	26.955
150	30.33	0.15	30.11	0.15	30.22
160	31.4	0.15	31.53	0.15	31.465
170	33.46	0.16	32.63	0.16	33.045
180	36.26	0.18	36.01	0.18	36.135
190	36.5	0.18	36.15	0.18	36.325
200	39.11	0.19	38.14	0.19	38.625
210	41.31	0.2	40.59	0.2	40.95
220	42.7	0.21	41.97	0.21	42.335
230	43.61	0.21	42.88	0.21	43.245
240	47.62	0.23	47.45	0.23	47.535
250	49.27	0.24	49.51	0.24	49.39
260	51.37	0.25	52.33	0.26	51.85
270	53.29	0.26	54.49	0.27	53.89
280	54.11	0.26	54.23	0.27	54.17
290	56.96	0.28	56.38	0.28	56.67
300	57.99	0.28	58.65	0.29	58.32
310	59.16	0.29	59.85	0.29	59.505
320	61.92	0.3	61.92	0.3	61.92
330	63.96	0.31	63.07	0.31	63.515
340	65.91	0.32	66.48	0.32	66.195
350	69.6	0.34	69.45	0.34	69.525
360	70.43	0.34	70.02	0.34	70.225
370	73.36	0.36	73.81	0.36	73.585
380	75.22	0.37	75.56	0.37	75.39
390	74.43	0.36	74.52	0.36	74.475
400	79.07	0.39	79.81	0.39	79.44
410	81.36	0.4	80.76	0.39	81.06
420	83.79	0.41	82.7	0.4	83.245
430	84.18	0.41	84.98	0.42	84.58
440	87.22	0.43	86.45	0.42	86.835
450	88.45	0.43	87.01	0.43	87.73
460	89.42	0.44	89.3	0.44	89.36
470	91.19	0.45	90.95	0.44	91.07
480	93.72	0.46	93.7	0.46	93.71
490	96.66	0.47	95.09	0.46	95.875
500	98.71	0.48	98.21	0.48	98.46
510	101.98	0.5	102.21	0.5	102.095
520	103.82	0.51	103.54	0.51	103.68
530	105.51	0.52	105.27	0.51	105.39
540	107.28	0.52	107.08	0.52	107.18
550	109.07	0.53	107.89	0.53	108.48
560	110.33	0.54	108.99	0.53	109.66
570	111.72	0.55	112.28	0.55	112
580	113.37	0.55	112.08	0.55	112.725
590	113.58	0.56	113.67	0.56	113.625

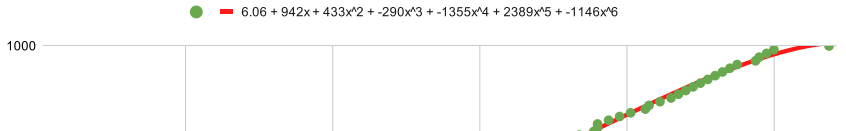
Mass vs Raw 10-bit voltage level



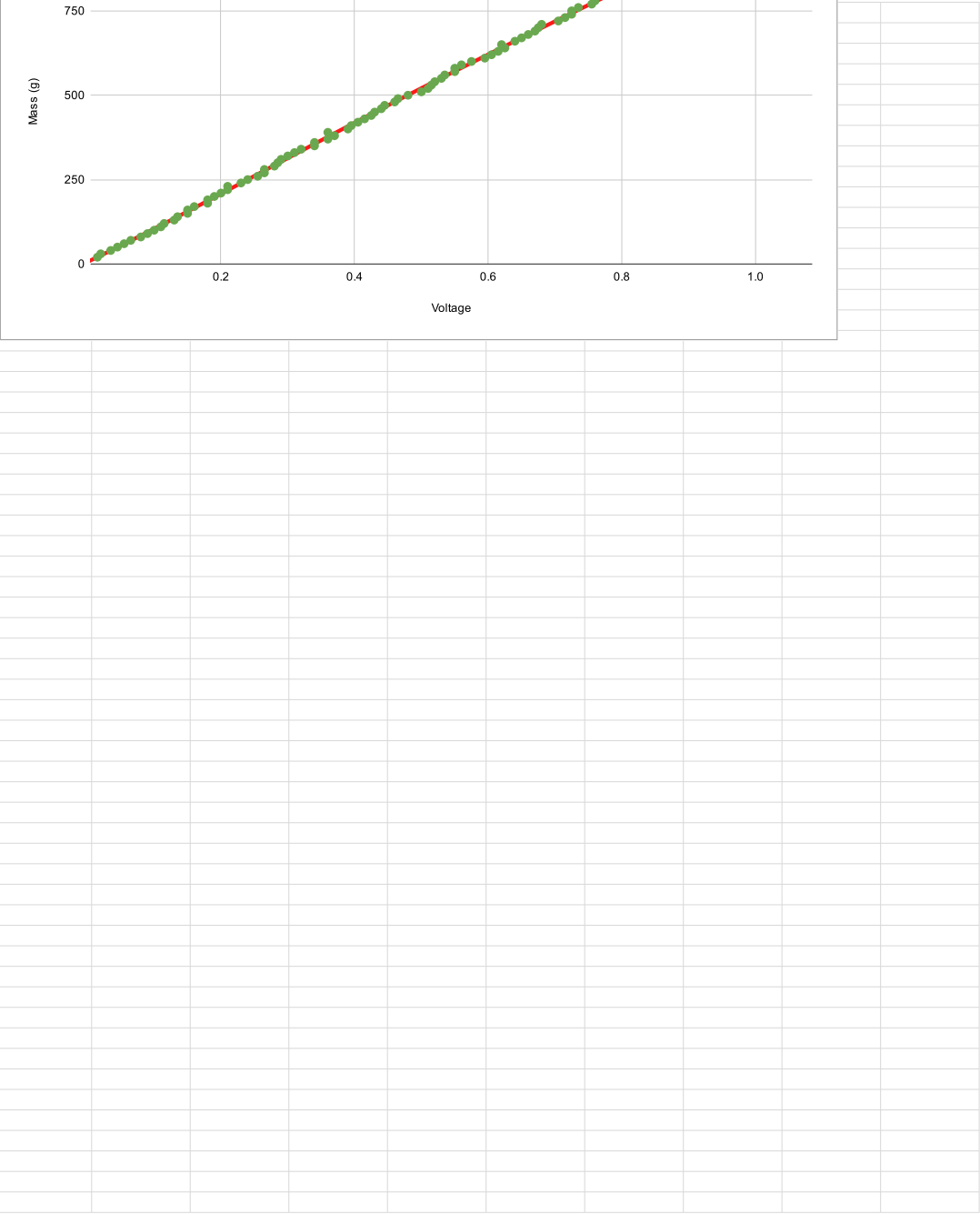
Mass vs Voltage



Voltage vs Mass

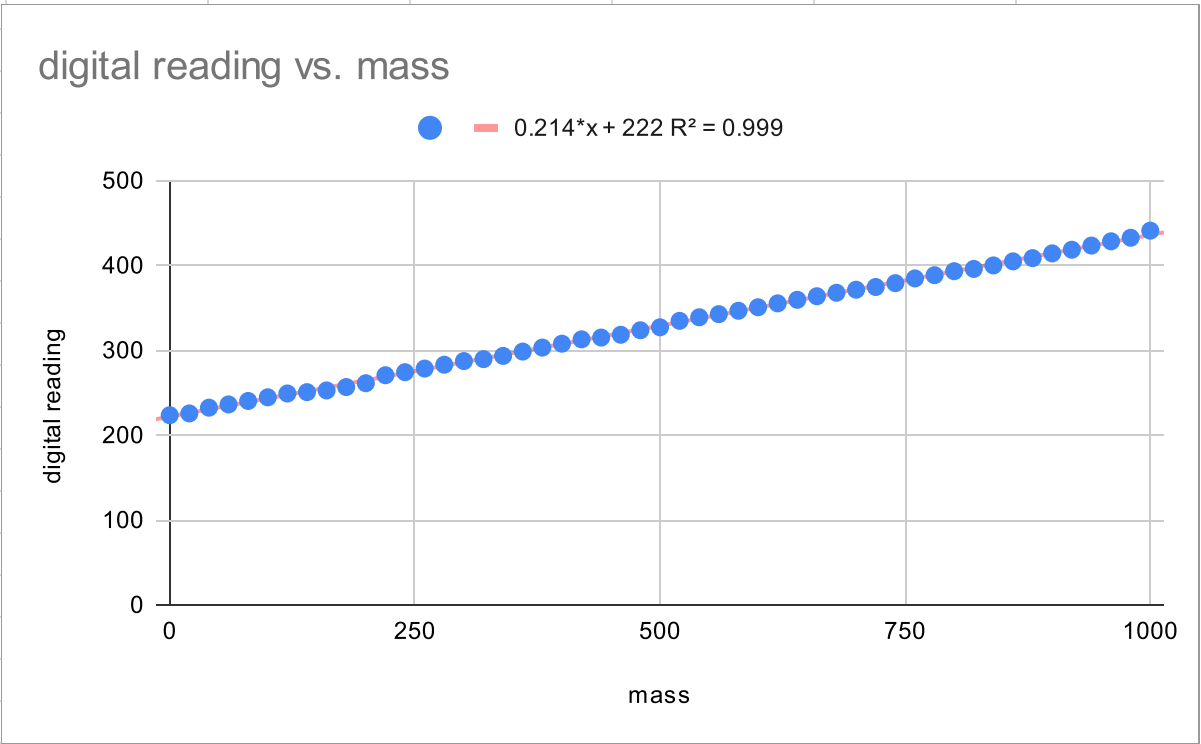


600	119.14	0.58	117.58	0.57	118.36	0.575
610	119.88	0.59	122.1	0.6	120.99	0.595
620	124.33	0.61	122.23	0.6	123.28	0.605
630	124.06	0.61	127.42	0.62	125.74	0.615
640	130.15	0.64	125.68	0.61	127.915	0.625
650	125.62	0.61	128.54	0.63	127.08	0.62
660	130.33	0.64	130.21	0.64	130.27	0.64
670	132.41	0.65	132.53	0.65	132.47	0.65
680	134.47	0.66	134.31	0.66	134.39	0.66
690	138.76	0.68	135.51	0.66	137.135	0.67
700	137.16	0.67	138.24	0.68	137.7	0.675
710	138.99	0.68	140.15	0.68	139.57	0.68
720	143.8	0.7	145.8	0.71	144.8	0.705
730	145.48	0.71	146.93	0.72	146.205	0.715
740	148.81	0.73	147.74	0.72	148.275	0.725
750	150.16	0.73	148.31	0.72	149.235	0.725
760	150.41	0.74	150.17	0.73	150.29	0.735
770	153.08	0.75	154.62	0.76	153.85	0.755
780	154.67	0.76	155.59	0.76	155.13	0.76
790	155.81	0.76	155.87	0.76	155.84	0.76
800	157.86	0.77	159.33	0.78	158.595	0.775
810	161.53	0.79	161.42	0.79	161.475	0.79
820	163.52	0.8	166.2	0.81	164.86	0.805
830	168.25	0.82	170.67	0.83	169.46	0.825
840	170.14	0.83	169.54	0.83	169.84	0.83
850	171.82	0.84	173.26	0.85	172.54	0.845
860	175.64	0.86	175.92	0.86	175.78	0.86
870	177.97	0.87	177.8	0.87	177.885	0.87
880	179.66	0.88	180.45	0.88	180.055	0.88
890	182.23	0.89	182.24	0.89	182.235	0.89
900	184.53	0.9	184.66	0.9	184.595	0.9
910	186.96	0.91	186.66	0.91	186.81	0.91
920	189.01	0.92	188.9	0.92	188.955	0.92
930	191.18	0.93	190.99	0.93	191.085	0.93
940	193.26	0.94	193.2	0.94	193.23	0.94
950	195.16	0.95	195.17	0.95	195.165	0.95
960	199.29	0.97	199.63	0.98	199.46	0.975
970	201.42	0.98	201.43	0.98	201.425	0.98
980	203.31	0.99	203.2	0.99	203.255	0.99
990	204.38	1	203.86	1	204.12	1
1000	219.42	1.07	221.73	1.08	220.575	1.075
1010						
1020						
1030						
1040						
1050						
1060						
1070						
1080						
1090						
1100						
1110						
1120						
1130						
1140						
1150						
1160						
1170						
1180						



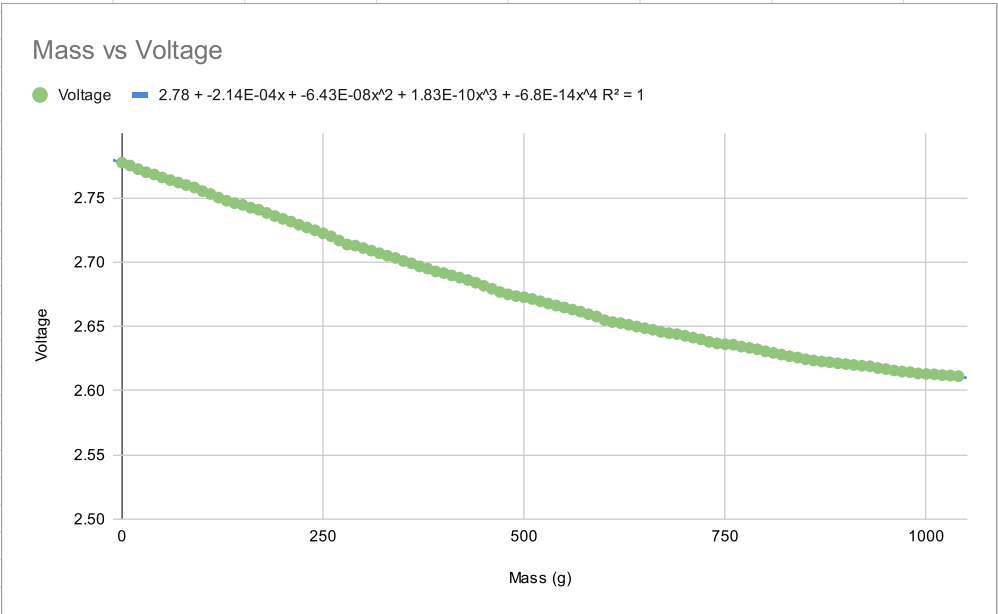
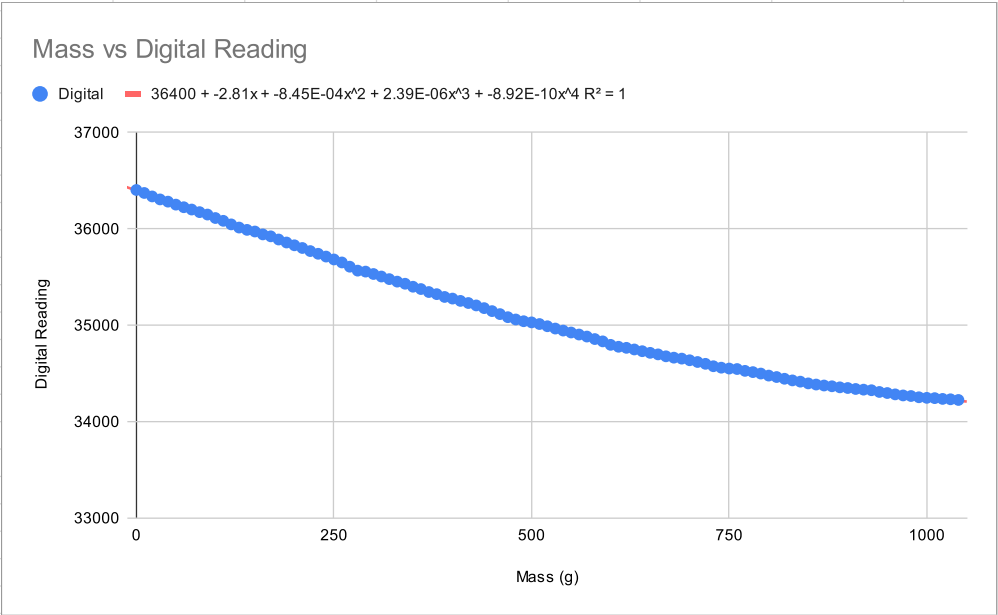


	digital reading							
0	223.5							
20	225.6							
40	232.4							
60	236.2							
80	240.3							
100	244.6							
120	249.1							
140	250.7							
160	252.7							
180	256.7							
200	261.2							
220	270.6							
240	274.2							
260	278.5							
280	283							
300	287.3							
320	289.6							
340	293.4							
360	298.5							
380	303.2							
400	307.8							
420	312.9							
440	315							
460	318.3							
480	323.6							
500	327.1							
520	334.7							
540	338.9							
560	342.6							
580	346.6							
600	350.7							



620	355.3							
640	359.5							
660	363.7							
680	367.8							
700	371.4							
720	374.6							
740	379.1							
760	384.7							
780	388.5							
800	393.2							
820	395.9							
840	400							
860	404.8							
880	408.6							
900	414.2							
920	418.5							
940	423.4							
960	428.4							
980	432.6							
1000	441							

Grams	Digital	Voltage	Grams	Digital	Voltage
0	36405	2.7775	0	36362	2.7819
10	36374	2.7752			
20	36338	2.7724			
30	36307	2.77			
40	36284	2.7683			
50	36253	2.7659			
60	36226	2.7639			
70	36202	2.762			
80	36175	2.76			
90	36150	2.7581			
100	36114	2.7553	100	36169	2.7595
110	36085	2.7531			
120	36048	2.7503			
130	36015	2.7478			
140	35991	2.7459			
150	35974	2.7446			
160	35944	2.7424			
170	35924	2.7408			
180	35891	2.7383			
190	35860	2.7359			
200	35831	2.7337	200	35878	2.7373
210	35803	2.7316			
220	35771	2.7292			
230	35743	2.727			
240	35714	2.7248			
250	35684	2.7225			
260	35653	2.7201			
270	35609	2.7168			
280	35568	2.7137			
290	35558	2.7129			
300	35533	2.711			
310	35507	2.709			
320	35480	2.707			
330	35454	2.705			
340	35432	2.7033			
350	35401	2.7009			
360	35377	2.6991			
370	35346	2.6967			
380	35324	2.695			
390	35295	2.6928			
400	35278	2.6915			
410	35254	2.6897			
420	35232	2.688			
430	35207	2.6861			
440	35179	2.684			
450	35148	2.6816			
460	35117	2.6793			
470	35085	2.6768			

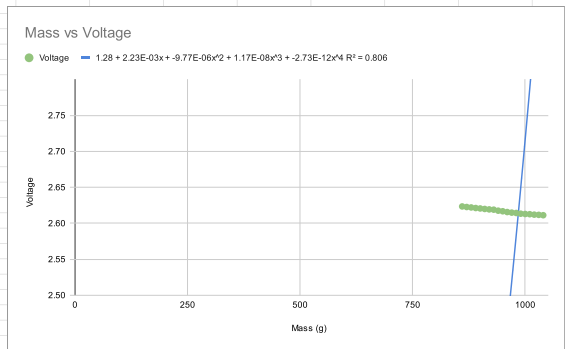
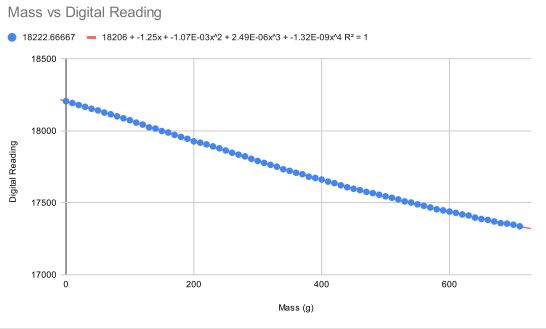




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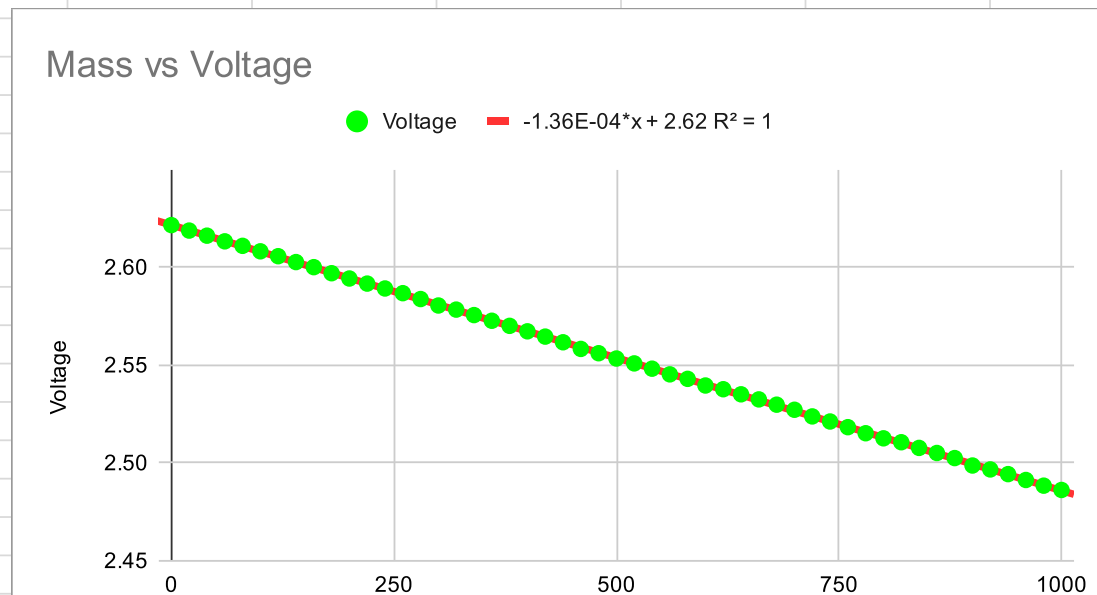
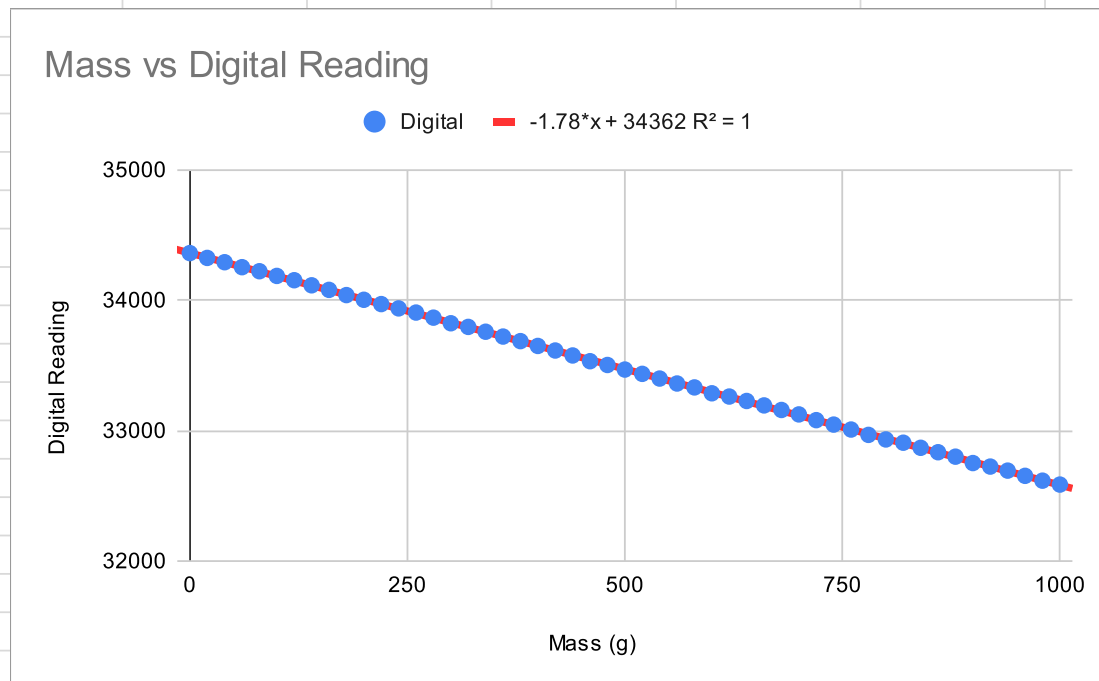
[illegible]

Grams	Digital	Voltage	digital	voltage	digital	voltage	average digital	average voltage
0	18222	1.3902	18222	1.3902	18224	1.3904	18222.66667	1.390266667
10	18207	1.3891	18208	1.3892	18205	1.389	18206.66667	1.3891
20	18192	1.388	18193	1.388	18196	1.3883	18193.66667	1.3881
30	18180	1.387	18182	1.3872	18179	1.387	18180.33333	1.387066667
40	18167	1.3861	18166	1.386	18169	1.3862	18167.33333	1.3861
50	18153	1.385	18155	1.3851	18153	1.385	18153.66667	1.385033333
60	18143	1.3842	18142	1.3841	18142	1.3841	18142.33333	1.384133333
70	18127	1.383	18127	1.383	18129	1.3832	18127.66667	1.383066667
80	18116	1.3822	18114	1.382	18117	1.3822	18115.66667	1.382133333
90	18101	1.381	18101	1.381	18102	1.3811	18101.33333	1.381033333
100					18088	1.38	18088	1.38
110	18074	1.379	18074	1.379	18075	1.379	18074.33333	1.379
120	18058	1.3777	18057	1.3777	18058	1.3777	18057.66667	1.3777
130	18044	1.3767	18044	1.3767	18044	1.3767	18044	1.3767
140	18024	1.3751	18024	1.3751	18026	1.3753	18024.66667	1.375166667
150	18016	1.3745	18017	1.3746	18016	1.3745	18016.33333	1.374533333
160	17999	1.3732	17999	1.3732	17999	1.3732	17999	1.3732
170	17988	1.3724	17989	1.3725	17989	1.3725	17988.66667	1.372466667
180	17973	1.3713	17973	1.3713	17971	1.3711	17972.33333	1.371233333
190	17957	1.37	17960	1.3703	17958	1.3701	17958.33333	1.370133333
200	17945	1.3691	17943	1.369	17948	1.3693	17945.33333	1.369133333
210	17926	1.3677	17929	1.3679	17927	1.3677	17927.33333	1.367766667
220	17917	1.367	17919	1.3671	17919	1.3671	17918.33333	1.367066667
230	17908	1.3663	17908	1.3663	17903	1.3659	17906.33333	1.366166667
240	17893	1.3651	17892	1.3651	17892	1.3651	17892.33333	1.3651
250	17880	1.3642	17879	1.3641	17879	1.3641	17879.33333	1.364133333
260	17865	1.363	17865	1.363	17862	1.3628	17864	1.362933333
270	17849	1.3618	17847	1.3616	17848	1.3617	17848	1.3617
280	17834	1.3606	17836	1.3608	17835	1.3607	17835	1.3607
290	17821	1.3597	17824	1.3599	17824	1.3599	17823	1.359833333
300	17805	1.3584	17806	1.3585	17807	1.3586	17806	1.3585
310	17792	1.3574	17792	1.3574	17788	1.3571	17790.66667	1.3573
320	17779	1.3565	17776	1.3562	17778	1.3564	17777.66667	1.356366667
330	17765	1.3554	17764	1.3553	17763	1.3552	17764	1.3553
340	17751	1.3543	17752	1.3544	17751	1.3543	17751.33333	1.354333333
350	17733	1.3529	17734	1.353			17733.6	1.35296
360	17723	1.3522	17721	1.352	17723	1.3522	17722.33333	1.352133333
370	17710	1.3512	17709	1.3511	17708	1.351	17709	1.351
380	17699	1.3503	17701	1.3505	17697	1.3502	17699	1.350333333
390	17681	1.349	17682	1.3491	17681	1.349	17681.33333	1.349033333
400	17673	1.3484	17673	1.3484	17673	1.3484	17673	1.348
410	17662	1.3475	17664	1.3477	17660	1.3474	17662	1.347533333
420	17649	1.3465	17647	1.3464	17647	1.3464	17647.66667	1.346433333
430	17638	1.3457	17636	1.3455	17637	1.3456	17637	1.345
440	17620	1.3443	17623	1.3445	17623	1.3445	17622	1.344433333
450	17610	1.3436	17608	1.3434	17607	1.3433	17608.33333	1.343433333
460	17597	1.3426	17597	1.3426	17599	1.3427	17597.66667	1.342633333
470	17588	1.3419	17589	1.342	17588	1.3419	17588.33333	1.341933333
480	17577	1.341	17576	1.341	17576	1.341	17576.33333	1.34
490	17567	1.3403	17569	1.3404	17567	1.3403	17567.66667	1.340333333
500	17554	1.3393	17559	1.3397	17556	1.3394	17556.33333	1.339466666
510	17545	1.3386	17543	1.3384	17548	1.3388	17545.33333	1.338
520	17533	1.3377	17537	1.338	17536	1.3379	17535.33333	1.337866666
530			17525	1.3371	17523	1.3369	17524	1.33
540	17510	1.3359	17509	1.3359	17511	1.336	17510	1.335933333
550	17501	1.3352	17502	1.3353	17504	1.3355	17502.33333	1.335333333
560	17489	1.3343	17491	1.3345	17488	1.3342	17489.33333	1.334333333
570	17478	1.3335	17479	1.3336	17480	1.3336	17479	1.333566666
580	17467	1.3326	17468	1.3327	17468	1.3327	17467.66667	1.332666666
590	17455	1.3317	17455	1.3317	17455	1.3317	17455	1.3317
600	17447	1.3311	17448	1.3312	17448	1.3312	17447.66667	1.331166667
610	17440	1.3306	17439	1.3305	17439	1.3305	17439.33333	1.330533333
620	17431	1.3299	17429	1.3297	17432	1.33	17430.66667	1.329866667
630	17419	1.329	17419	1.329	17420	1.3291	17419.33333	1.329033333
640	17413	1.3285	17412	1.3285	17411	1.3284	17412	1.328466667
650	17399	1.3275	17397	1.3273	17396	1.3272	17397.33333	1.327333333
660	17388	1.3266	17389	1.3267	17386	1.3265	17387.66667	1.3266
670	17381	1.3261	17382	1.3262	17380	1.326	17381	1.3261
680	17372	1.3254	17370	1.3252	17369	1.3252	17370.33333	1.325266667
690			17361	1.3246	17357	1.3243	17359	1.32445
700	17357	1.3243	17353	1.3239	17357	1.3243	17355.66667	1.3241
710	17349	1.3236	17349	1.3236	17346	1.3234	17348	1.3235
720	17338	1.3228	17337	1.3227	17336	1.3227	17337	1.3227
730	17360	1.3245	17361	1.3246	17362	1.3246	17361	1.324566667
740	17354	1.324	17354	1.324	17354	1.324	17354	1.324
750	17345	1.3233	17345	1.3233	17345	1.3233	17345	1.3233
760	17340	1.323	17340	1.323	17340	1.323	17340	1.323
770	17331	1.3223	17333	1.3224	17328	1.322	17330.66667	1.322233333
780	17323	1.3217	17322	1.3216	17322	1.3216	17322.33333	1.321633333
790	17318	1.3213	17318	1.3213	17319	1.3214	17318.33333	1.321333333
800	17313	1.3209	17313	1.3209	17311	1.3207	17312.33333	1.320833333
810	17306	1.3204	17305	1.3203	17305	1.3203	17305.33333	1.320333333
820	17297	1.3197	17297	1.3197	17299	1.3198	17297.66667	1.319733333
830	17291	1.3192	17291	1.3192	17290	1.3191	17290.66667	1.319166667
840	17286	1.3188	17284	1.3187	17284	1.3187	17284.66667	1.318733333
850	17281	1.3185	17280	1.3184	17282	1.3185	17281	1.318466667



[illegible]

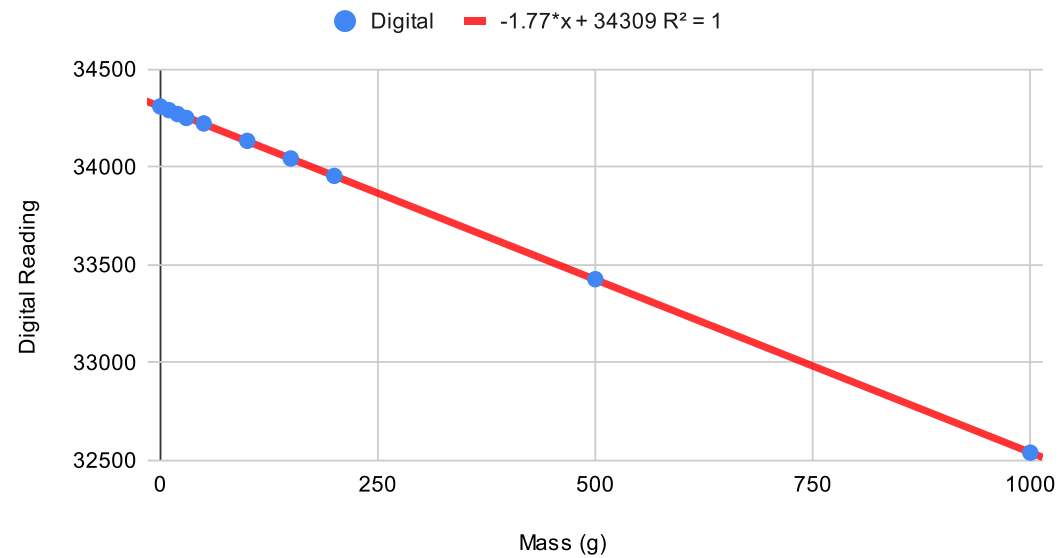
mass in grams	digital	voltage
0	34361	2.6216
20	34324	2.6188
40	34291	2.6162
60	34253	2.6133
80	34222	2.611
100	34186	2.6082
120	34153	2.6057
140	34114	2.6027
160	34079	2.6001
180	34039	2.597
200	34003	2.5943
220	33970	2.5917
240	33937	2.5892
260	33905	2.5868
280	33866	2.5838
300	33823	2.5805
320	33795	2.5784
340	33758	2.5756
360	33721	2.5727
380	33686	2.5701
400	33649	2.5673
420	33614	2.5646
440	33576	2.5617
460	33532	2.5583
480	33503	2.5561
500	33468	2.5534
520	33435	2.5509
540	33399	2.5482
560	33361	2.5453
580	33331	2.543
600	33286	2.5396
620	33261	2.5377
640	33227	2.5351
660	33193	2.5325



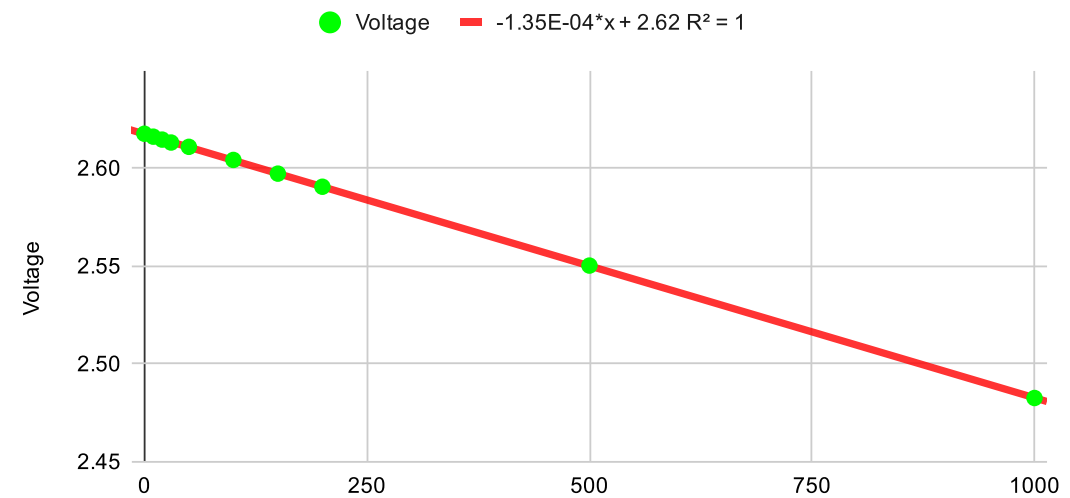
680	33158	2.5298	Mass (g)					
700	33124	2.5272						
720	33080	2.5238						
740	33046	2.5212						
760	33008	2.5183						
780	32967	2.5152						
800	32932	2.5126						
820	32907	2.5106						
840	32868	2.5077						
860	32834	2.5051						
880	32800	2.5025						
900	32751	2.4987						
920	32724	2.4967						
940	32693	2.4943						
960	32653	2.4913						
980	32616	2.4884						
1000	32586	2.4862						

mass in grams	digital	voltage
0	34310	2.6177
10	34291	2.6162
20	34271	2.6147
30	34251	2.6132
50	34223	2.611
100	34134	2.6043
150	34044	2.5973
200	33955	2.5906
500	33427	2.5503
1000	32540	2.4826

Mass vs Digital Reading



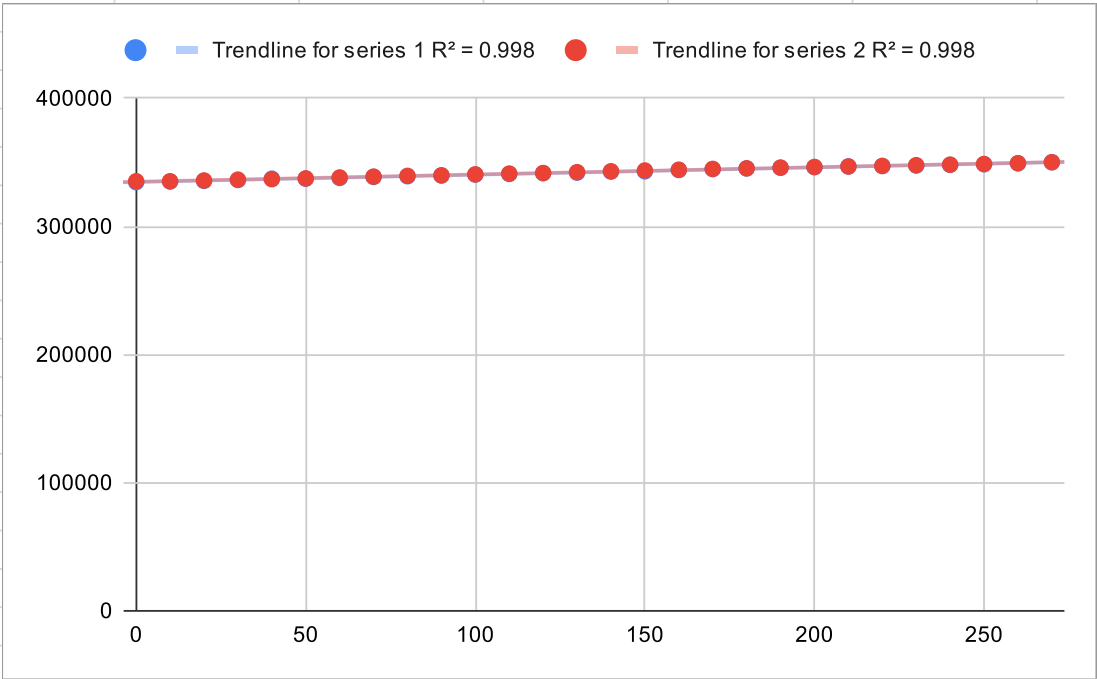
Mass vs Voltage



[illegible]



Mass G	Digital1	Digital2							
0	334526	335328							
10	335105	335251							
20	335573	335865							
30	336254	336513							
40	337277	336888							
50	337261	337509							
60	337824	338231							
70	338662	338874							
80	339178	339501							
90	339750	339918							
100	340502	340648							
110	340986	341253							
120	341559	341712							
130	342010	342366							
140	342874	342996							
150	342996	343698							
160	344032	344258							
170	344793	344871							
180	345302	345361							
190	345785	345916							
200	346293	346407							
210	346807	346823							
220	347144	347246							
230	347591	347791							
240	348052	348200							
250	348596	348719							
260	349273	349382							
270	350157	350116							
280									
290									
300									
310									
320									
330									









Mass (g)	Digital Read	Digital Read2				
0	88204	87443				
100	88999	87917				
200	89508	88514				
300	90327	89214				
400	91341	89739				
500	91938	90352				
600	92809	91213				
700	93463	92540				
800	94134	92993				
900	94747	93835				

