

Name(s)

	4	3	2	1	0	Multiplier	Score
Heading	x	x	x	Heading is formatted appropriately	Not included or not formatted appropriately	x1	
Title	x	x	x	Title a short phrase that correctly identifies the variables in the experiment or the purpose of the experiment.	Not included or does not meet requirements.	x2	
Objective	The correct choice is made between writing a hypothesis or a problem; the hypothesis or problem is reasonable given the theme of the experiment; written in the correct format.	In reference to level 4 performance, has one error in format or content	x	In reference to level 4 performance, only one requirement is met.	Not included or below level 4 performance	x1	
Background	Explained correctly all relevant laws/theories/principles/concepts	Explained most or all with minor errors	Explained some or all but with many errors	Explained few or some with significant errors	Not included	x2	
	Defined all terms correctly	Defined most or all with minor errors	Defined some or all but with many errors	Defined few or some with significant errors	Not included	x1	
	x	x	Explained correctly all relevant formulas	Explained most formulas or all but with errors	Not included	x1	
	x	x	Provided brief, clear narrative overview of procedure, including a brief description of the method, variables, and use of formulas	Description of procedure is below level 2 performance	Not included or incomplete and unclear	x1	
	Convinced the reader that the procedure allowed testing of the hypothesis/solving of the problem	x	Included but below level 4 performance	x	Not included or incomplete and unclear	x1	
Materials	x	x	Complete materials list included; all materials described clearly	Materials list included but incomplete or unclear	Not included or below level 1 performance	x1	

Procedure	Overall: Procedure effectively tested hypothesis or solves problem	x	Procedure partially tested the hypothesis or solved the problem.	x	Did not effectively test hypothesis or solve problem	x2	
	Described physical setup clearly	x	Setup described but not clearly	x	Not included	x1	
	Stated all measurements taken and how they were taken	x	Stated some measurements or all measurements but without describing method	x	Not included or largely incomplete	x1	
	Stated all calculations performed, identifying which measurements were used	x	Stated some calculations or all calculations but without describing all measurements used	x	Not included or largely incomplete	x1	
	Format error point deductions...						
Data Tables & Graphs	Includes all required data presented in clearly-organized and correct format; no errors in measurement or calculation	In reference to level 4 performance, has few minor errors	In reference to level 4 performance, has multiple minor errors or one moderate to significant error	In reference to level 4 performance, has some significant errors or too many minor errors to warrant level 2 performance	Not included or has multiple significant errors	x3	
Calculations	Complete and correctly done with thorough labels and units; error analysis correctly included if relevant	In reference to level 4 performance, has few minor errors	In reference to level 4 performance, has multiple minor errors or one moderate to significant error	In reference to level 4 performance, has some significant errors or too many minor errors to warrant level 2 performance	Not included or has multiple significant errors	x2	
Conclusion	Correctly and thoroughly: concludes, supports the conclusion with evidence, and acknowledges experimental error	In reference to level 4 performance, may have minor weaknesses or errors	In reference to level 4 performance, has multiple minor weaknesses or errors or has a few significant weaknesses or errors	In reference to level 4 performance, has some significant errors or too many minor errors to warrant level 2 performance	Not included or has multiple significant weaknesses or errors	x4	
Use of first person point deductions							
Common Comments:					SCALE EQUIVALENT		
AWK: Awkward to the point of not conveying proper meaning					EQUIVALENT PERCENTAGE & SCORE		
VAR: Did not refer to all variables that you calculated or measured.							
EE: Evidence Error - Referred too much or not enough to numbers							
FE: Format Error - Did not follow required format.							
MFE: Major Format Error - Repeatedly did not follow the required format							
PE: Precision Error - Uncertainty is incorrect or missing or precision was incorrect							
Units: Did not se units consistently when calculating							

Calculation: Total points ÷ # of multipliers = scale equivalent; percent conversion available below

SCALE > EQUIVALENT PERCENT CONVERSION

Scale	Percent Conversion	Out of 50 points
4.0	100	50
3.9	99	50
3.8	98	49
3.7	97	49
3.6	96	48
3.5	95	48
3.4	95	48
3.3	94	47
3.2	93	46
3.1	91	46
3.0	90	45
2.9	88	44
2.8	86	43
2.7	84	42
2.6	82	41
2.5	80	40
2.4	78	39
2.3	76	38
2.2	74	37
2.1	72	36
2.0	70	35
1.9	68	34
1.8	66	33
1.7	64	32
1.6	62	31
1.5	60	30
1.4	58	29
1.3	56	28
1.2	54	27
1.1	52	26
1.0	50	25
0.9	45	23
0.8	40	20
0.7	35	18
0.6	30	15
0.5	25	13
0.4	20	10
0.3	15	8
0.2	10	5
0.1	5	3
0.0	0	0