

DERO Technical Services

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CUT-OFF values - Grade Values - Rounding Up or Down

First and foremost, I would like to thank PSUG-MA user group for putting up with me as I try to tackle this area and make sense of it for area schools. Special thanks to Brian Andle as always!

The Web Gradebook is without doubt a java based calculation application. Depending upon which Standard Guru your curriculum leadership team have read, "most believe that averaging and percent is contrary to the standard-based movement.

Before the Web Gradebook was able to handle standards, districts still had to set up conversion scales so teachers would have choices when entering grades via PowerTeacher Final Grade

Grade/Label	Description	Cut-off	Grade Value
E	Extends	90	90
M	Meets	80	80
A	Approaching	70	70
В	Below	60	60
NA	Not Assessed	0	0

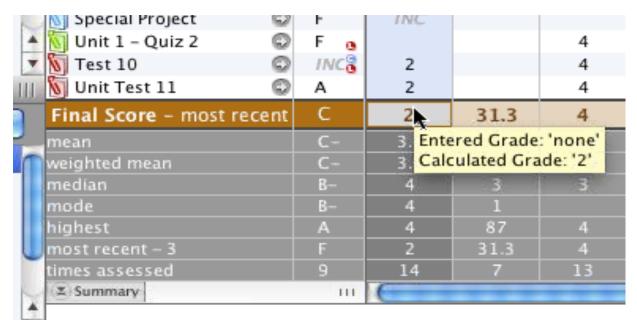
Options. Often with these alphanumeric scales, we could leave grade value blank and just enter a cut-off score – the highest # (90 in this case) would be the first value (E) in the teacher drop down window. *PLEASE NOTE-I AM NOT SUGGESTING any of these values and or descriptions.* The "POWER" in PowerSchool is the flexibility of each district establishing it's own methodology.

Once standards could be associated to assignment(s) in the Web Gradebook, grade values and cutoff values took on new meaning. For the purposes of the rest of this guide, lets assume that your

School	Default Standards Final Grade	Teacher Modify Default	Most Recent Calculation	Modify Most Recent
Beal Early Childhood Center	Most Recent 💠	⋖	3 (33.3%, 33.3%, 33.3%)	

school is using the default settings in PT Admin for controlling the calculated values in Web Gradebook. Final Calculated Grade* will be an equally weighted calculation of the most recent 3 scores for a given standard.

In this example, the teacher is presented with lots of EVIDENCE but the calculated grade of 2 is the final grade since the students last three entries for that standards were 2-2-2.



The teacher would most likely override this grade since he or she has 14 assessments of this standard, highest was 4, mode was 4, median was 4. If the teacher overrides that grade, Entered Grade would no longer read "none" rather the value they choose.

Using the criteria above the following scenario will occur. A teacher associated the same standard to multiple assignments, Gradebook will auto calculate a value based on the last three scores on that standard

Cut-off	Grade Value	Using the current cut- off s	scale – three examples
90	90	1) E, E, E = E 2) E, E, M = M	A calculated value of 90 = E.
80	80	3) E, M, M = M	A calculated value 80-89.9 = M.
70	70	Using the Grade Values for these examples	Most teachers would override 87 to give that child an for an M.
60	60	1) 90-90-90=90	ALTER YOUR CUT OFF VALUE SO
0	0	2) 90-90-80=87	PTG CAN DO IT FOR THEM
		3) 90-80-80=83	

RECOMMENDATION: CUT-OFF VALUES SHOULD BE HALF OF GRADE VALUE DELTA

FOR THIS SCALE : CUT-OFF VALUES WOULD BE 85,75,65,55. For testing in Excel your equation would be =IF(E33 <= 65,"B",IF(E33 <= 75,"A",IF(E33 <= 85,"M","E")))

Cut off vs Grade Value in Conversion Scales

	SCALE A			SCALE B		NEW
Grade Label	Cut Off	Grade Value	Grade Label	Cut Off	Grade Value	CUT-OFF
4	87.5	100	E	90	90	85
3	62.5	75	M	80	80	75
2	37.5	50	Α	70	70	65
1	12.5	25	В	60	60	55
N/A	0	0	N/A	0	0	0

RECOMMENDED CUT-OFF VALUE = HALF OF THE GRADE VALUE DELTA

100+75/2=87.5	;	90+80/2=85
75+50/2=62.5		80+70/2=75
50+25/2=37.5		70+60/2=65
25+0/2=12.5		60+50/2=55

THESE EXAMPLES HAVE ORIGINAL CUT OFF SCALE IN GREEN ABOVE < "=IF(E33<=69,"B",IF(E33<=79,"A",IF(E33<=89,"M","E")))"

in PT Admin your district stays with the default of Most Recent 3 and equal weighting of 33%- let's see what happens

SCALE B	Most Recent	2nd Recent	3rd Recent	Final Score	
Example 1	E	E	E	E	< Compared to Cut-Off
Grade Values	90	90	90	90	< Calculated Average
NEW CUT-OFF			\longrightarrow	E	< Compare NEW Cut-Off
Grade Values	90	90	90	90	
Example 2	E	E	M	M	< Compared to Cut-Off
Grade Values	90	90	80	87	< Cacluated Average
NEW CUT-OFF			\longrightarrow	E	< Compare NEW Cut-Off
Grade Values	90	90	80	87	
Example 3	E	M	M	М	< Compared to Cut-Off
Grade Values	90	80	80	83	< Calculated Average
NEW CUT-OFF			\longrightarrow	М	< Compare NEW Cut-Off
Grade Values	90	80	80	83	

Calculated Value displays correct Grade
 Your teachers would PROBABLY round 87 up to E

THESE EXAMPLES HAVE NEW CUT OFF SCALE IN GREEN SCALE ABOVE < "=IF(F40<=37.4,"1",IF(F40<=62.4,"2",IF(F40<=87.4,"3","4")"

SCALE A Example 4 Grade Values	Most Recent 4 100	2nd Recent 4 100	3rd Recent 4 100	pared to Cut-Off ulated Average
Example 5	4	4	3	pared to Cut-Off
Grade Values	100	100	75	uated Average
Example 6	4	3	3	pared to Cut-Off
Grade Values	100	75	75	ulated Average
Example 7	4	3	2	pared to Cut-Off
Grade Values	100	75	50	ulated Average
Example 8	4	2	2	pared to Cut-Off
Grade Values	100	50	50	ulated Average
Example 9	3	2	2	pared to Cut-Off
Grade Values	75	50	50	ulated Average
Example 10	2	2	2	pared to Cut-Off
Grade Values	50	50	50	ulated Average
Example 11	2	2	1	pared to Cut-Off
Grade Values	50	50	12.5	ulated Average
Example 12	3	1	1	pared to Cut-Off
Grade Values	75	12.5	12.5	ulated Average
Example 13	2	1	1	pared to Cut-Off
Grade Values	50	12.5	12.5	ulated Average