District Level: <u>GPA Calculations</u>. The number of calc methods varies from district to district depending on need.

Name	Description
Added Value	
JH Cum GPA 7	Cumulative GPA based on Q1, Q2, Q3, Q4
JH Cum GPA 8	Cumulative GPA based on Q1, Q2, Q3, Q4
JH Current GPA	Current Term GPA pulling from Teacher Grade Book
JH Q1 GPA	JH Q1 Projected for Grade Cards
JH Q2 GPA	JH Q2 Projected for Grade Cards
JH Q3 GPA	JH Q3 Projected for Grade Cards
JH Q4 GPA	JH Q4 Projected for Grade Cards
Simple	
Simple Percent	
Weighted	
Weighted Percent	
Whitmer 4.0 Calc Method	Method will ignore added value points to course
Whitmer Added Value	Calc method respects added value points to course
Whitmer Current GPA	Current GPA pulling from grade book
Whitmer Q1 AV Projected	Grade card and GPA Student Screen
Whitmer Q2 AV Projected	Grade card and GPA student screen
Whitmer Q3 AV Projected	Grade card and GPA Student Screen
Whitmer Q4 AV Projected	Grade card and GPA Student Screen

The <u>**Current calc method</u>** pulls live from the teacher grade book based on the term that the "current grade display screen" is set to. If that is set to Q1, it pulls from Q1. If you are in Q2 but forget to advance this screen to Q2, it is still pulling from Q1. The "current grade display screen" is a critical setting which links back to the "current calc method".</u>

Current Grade Display		
Quick Lookup Mobile App Display		
This screen specifies which grades are seen on the Quick Lookup screen as below will be used to calculate the GPA on the Quick Lookup screen as well a Column #	well as on the summary screen parents see when t as to read out grades to parents over the phone. Store Code	hey access their student's record through the interest Source of Data
Column 1.		Gradebook
Column 2.	Q2	Historical (stored)
Column 3.	IS1	Historical (stored)
Column 4.	Q3	Historical (stored)
Column 5.	Q4	Historical (stored)
Column 6.	S2	Historical (stored)
Current Grade	N 01	Used to indicate the current final grade
(always comes from the teacher's Gradebook)	N IN	throughout PowerSchool
Show Citizenship Grade		
Hide standards grades in Parent Access		
Parent/Student Access Term (leave blank for default)	12-13	
GPA Calculation Method		
General		
Method name	Whitmer Current GPA	
Description	Current GPA pulling from grade book	
GPA Calculation		
	round((gpa_sum((gpa_gpapoints()-gpa_a potentialcredit())/sum(gpa_potentia credit()	ddedvalue())*gpa_)),3)
Formula		
Calculation type	Current 💌 V	
Grade scale		
Query Options		
Terms		(comma-separated)
Grade levels		(comma-separated)
School years	2012	(comma-separated)
Credit types		(comma-separated)
	that count in GPA	
	that count in class rank	
Only include grades	that count in honor roll	
	with potential credit	

The <u>"projected calc method</u>" is a work around necessary to pull quarter GPAs when your school is using the "weighted" or "added value" calc methods. Both these methods evaluate potential/earned credit with respect to quality points and calculating GPAs. Since most of our High Schools do award a range of credit values, (.25) vs. (.5) vs. (.625) vs. (1.0) vs. (1.25), etc., most are using a "weighted" calc method. Four (4) distinct set ups are needed for Q1-Q4. Here is Q1, using the Z1 term. DO NOT ATTACH THE GRADE SCALE IF YOU ARE LINKING COURSES TO MULTIPLE GRADE SCALES.

General	
Method name	H Q1 GPA
Description	JH Q1 Projected for Grade Cards
GPA Calculation	
Formula	round((gpa_sum(gpa_gpapoints()*gpa_potentialcredit())/su m(gpa_potentialcredit())).3)
Calculation type	Projected 💌
Grade scale	Default
Query Options	
Terms	Z1 (comma-separated)
Grade levels	(comma-separated)
School years	2012 (comma-separated)
Credit types	(comma-separated)
Only include grades	 that count in GPA that count in class rank that count in honor roll with potential credit
Projected GPA Options	
Projected grades are	Stored grades from this term: 🔽 JQ1
Do not add grade if	A grade for the course exists in this term:
Stored credit hours	Get potential credit from course 🔽

It is imperative that you set up these **<u>Projected GPA Options</u>** at the bottom of the screen to be exactly what you see above.

Here is Q2 projected using the Z2 term.

GPA Calculation Method

General			
Method pame			
metrou name		JII 02 GFA	
Description		JH 02 Projected for Grade Cards	.al
GPA Calculation			
Formula	l⊊	round((gpa_sum(gpa_gpapoints()*gpa m(gpa_potentialcredit())).3)	_potentialcredit())/su
Calculation type		Projected 💌	
Grade scale		Default	
Query Options			
Terms	\sim	72	(comma-separated)
Grade levels			(comma-separated)
School years		2012	(comma-separated)
Credit types			(comma-separated)
Only include grades		 that count in GPA that count in class rank that count in honor roll with potential credit 	
Projected GPA Options			_
Projected grades are		Stored grades from this term:	\mathcal{D}
Do not add grade if		A grade for the course exists in this te	erm: 🔽 🔽
Stored credit hours		Get potential credit from course 💌	

Here is Q3 projected using the Z3 term.

GPA Calculation Method

General	
Method name	JH Q3 GPA
Description	JH Q3 Projected for Grade Cards
GPA Calculation	
Formula	round((gpa_sum(gpa_gpapoints()*gpa_potentialcredit())/su m(gpa_potentialcredit())).3) .::
Calculation type	Projected 🔽
Grade scale	Default
Query Options	
Terms	Z3 (comma-separated)
Grade levels	(comma-separated)
School years	2012 (comma-separated)
Credit types	(comma-separated)
Only include grades	that count in GPA that count in class rank that count in honor roll with potential credit
Projected GPA Options	
Projected grades are	Stored grades from this term: 🔽 📿
Do not add grade if	A grade for the course exists in this term: 💌 Z3
Stored credit hours	Get potential credit from course

Export as

Here is Q4 projected using the Z4 term.

GPA Calculation Method

General	
Method name	JH Q4 GPA
Description	JH Q4 Projected for Grade Cards
GPA Calculation	
Formula	round((gpa_sum(gpa_gpapoints()*gpa_potentialcredit())/su m(gpa_potentialcredit())).3) :
Calculation type	Projected 💌
Grade scale	Default
Query Options	
Terms	Z4 (comma-separated)
Grade levels	(comma-separated)
School years	2012 (comma-separated)
Credit types	(comma-separated)
Only include grades	 that count in GPA that count in class rank that count in honor roll with potential credit
Projected GPA Options	
Projected grades are	Stored grades from this term: Q4
Do not add grade if	A grade for the course exists in this term: 🔽 Z4
Stored credit hours	Get potential credit from course

The <u>Cumulative GPA</u> calculates the "career" GPA for a student based on specific store codes that you want to factor into the GPA. Some schools only store F1 marks. Other schools store S1 and S2 marks. Some schools store S1, S2, Y1 or F1. <u>The store code that is receiving credit</u> is the store code that needs to be built into this set up. Below, you see a store code of F1. Other schools may have S1,S2 in that term box, or S1,S2,Y1, it just depends on your final grade set up. Below is an example of a "cumulative" set up using the "weighted" formula which simply means potential/earned credit will be evaluated in calculation of quality points for the GPA. <u>Do not link this to a grade scale</u>. You want the cumulative calc method to read what has been saved to the stored grade table.



Below is an example of a cumulative set up based on using the "added value" formula, similar to "weighted", but you will notice the formula is pulling in "added value points" from the course screen set up. For example, an AP course may have an added value point of "1" on the course. This calc method will pull that value into the cumulative calculation while still respecting potential/earned credit.

CPA Colouistics Method	
General	
Method name	Whitmer Added Value
Description	Calc method respects added value points to course
GPA Calculation	\checkmark
Formula	round((gpa_sum((gpa_gpapoints <mark>))+gpa_addedvalue())</mark> *gpa _potentialcredit())/sum(gpa_potentialcredit())).4) .::
Calculation type	Cumulative -
Grade scale	
Query Options	
Terms	F1 (comma-separated)
Grade levels	9,10,11,12 (comma-separated)
School years	(comma-separated)
Credit types	(comma-separated)
Only include grades	 that count in GPA that count in class rank that count in honor roll with potential credit
Projected GPA Options	
Projected grades are	Current final grades
Do not add grade if	A grade for the course exists in any term
Stored credit hours	Use actual credit hours

This screen shot is what you often hear referred to as a "default", out of the box, GPA set up. These set ups should never be deleted or altered. These set ups are critical to those who code grade cards and transcripts. Coding within the object report can point back to this default set up to carry out GPA calculations to pull into the object report. This is your basic default "weighted" set up that will evaluate potential/earned credit. The grade levels, terms, and even credit types can be coded into the object report to tie back to this default set up, thus are blank on the set up screen below.

General	
Method name	Weighted
Description	it.
GPA Calculation	
Formula	round((gpa_sum(gpa_gpapoints()*gpa_potentialcredit())/su m(gpa_potentialcredit())).4) .::
Calculation type	Cumulative 💌
Grade scale	
Query Options	
Terms	(comma-separated)
Grade levels	(comma-separated)
School years	(comma-separated)
Credit types	(comma-separated)
Only include grades	 that count in GPA that count in class rank that count in honor roll with potential credit
Projected GPA Options	
Projected grades are	Current final grades
Do not add grade if	A grade for the course exists in any term
Stored credit hours	Use actual credit hours

⁹ GPA Calculation Method

<u>Terms, grade levels, school years, credit type are blank because the object report coding will dictate to this calc method what to consider for those empty boxes.</u>

This screen shot is exactly like the one above except it is the default "added value" GPA calc set up. It will pull in the added value points on a course.

General	
Method name	Added Value
Description	.:
GPA Calculation	
Formula	round((gpa_sum((gpa_gpapoints <mark>()+gpa_addedvalue()</mark> *gpa _potential@edit())/sum(gpa_potential@edit())).4) .::
Calculation type	Cumulative 💌
Grade scale	
Query Options	
Terms	(comma-separated)
Grade levels	(comma-separated)
School years	(comma-separated)
Credit types	(comma-separated)
Only include grades	 that count in GPA that count in class rank that count in honor roll with potential credit
Projected GPA Options	
Projected grades are	Current final grades
Do not add grade if	A grade for the course exists in any term 💌
Stored credit hours	Use actual credit hours
	Export a

GPA Calculation Method

<u>Terms, grade levels, school years, credit type are blank because the object report coding will dictate to this calc method what to consider for those empty boxes.</u>

The defaults are powerful when it comes to object report coding. Below is a screen shot of a simple GPA/Credits Box display. How do you get the values to pull to that box? It is based on coding that speaks to the default methods summarized previously.

GPA/Credit	\$			
		0		
Grade Level	Year GPA	Cum GPA	Credits	Cum Credits
Grade 9:	3.6296	3.6296	6.750	6.750
Grade 10:	3.8400	3.7308	6.250	13.000
Grade 11:	3.8571	3.7750	7.000	20.000
Grade 12:		3.7750	0.000	20.000
	X.			
Career Cum V	∛eighted GPA	: 3.7750 Career	Cum Rank:	8 out of 62

Here is the coding that generates the screen shot above:

Grade Level<tabc 5.5>Year GPA<tabc 6.275>Cum GPA <tabc 7.0>Credits<tabc 7.70>Cum Credits

Grade 9:<tabc 5.5>^(*gpa method="Weighted_T" grade="9" term="S1,S2")<tabc 6.275>^(*gpa method="Weighted_T" grade="9" term="S1,S2")<tabc 7.0>^(*credit_hours;9;S1,S2)<tabc 7.70>^(*credit_hours;9;S1,S2)

Grade 10:<tabc 5.5>^(*gpa method="Weighted_T" grade="10" term="S1,S2")<tabc 6.275>^(*gpa method="Weighted_T" grade="9,10" term="S1,S2")<tabc 7.0>^(*credit_hours;10;S1,S2)<tabc 7.70>^(*credit_hours;9,10;S1,S2)

Grade 11:<tabc 5.5>^(*gpa method="Weighted_T" grade="11" term="S1,S2")<tabc 6.275>^(*gpa method="Weighted_T" grade="9,10,11" term="S1,S2")<tabc 7.0>^(*credit_hours;11;S1,S2)<tabc 7.70>^(*credit_hours;9,10,11;S1,S2)

Grade 12:<tabc 5.5>^(*gpa method="Weighted_T" grade="12" term="S1,S2")<tabc 6.275>^(*gpa method="Weighted_T" grade=9,10,11,12" term="S1,S2")<tabc 7.0>^(*credit_hours;12;S1,S2)<tabc 7.70>^(*credit_hours;9,10,11,12;S1,S2)

Career Cum Weighted GPA: ~(*gpa method="Weighted_T" grade="9,10,11,12" term="S1,S2") <tabl6.7> Career Cum Rank: ~(*classrank method="cumulative gpa" result="rankoutof")

Here is a screen shot of a more complex GPA/Credit Box that is listing both a "4.0" and "weighted GPA" in the box. Even though it may be a bit more cumbersome to build, it all goes back to the "default weighted" and "default added value" GPA Calc methods as the coding speaks to these to set ups.

GPA & Cre	dit History				
		Weighted	Unweighted		
Grade Level	GPA	Cum GPA	Cum GPA	Credits	Cum Credits
Grade 9:	3.7200	3.7200	3.6400	6.25	6.25
Grade 10:	3.5333	3.6231	3.5077	6.75	13.00
Grade 11:	3.9333 🗟	3.7366	3.6146	7.50	20.50
Grade 12:		3.7366	3.6146	0.00	20.50
Career Cum	Weighted GPA	: 3.7366 Car	reer Cum Rank	:: 60 of 33	35

Here is the coding that produces the values in the box above:

<tabc 6.325>Weighted<tabc 6.925>Unweighted

Grade Level<tabc 5.75>GPA<tabc 6.325>Cum GPA <tabc 6.925>Cum GPA<tabc 7.425>Credits<tabc 7.95>Cum Credits

Grade 9:<tabc 5.75>^(*gpa method="Added Value" grade="9" term="S1,S2,Y1")<tabc 6.325>^(*gpa method="Added Value" grade="9" term="S1,S2,Y1")<tabc 6.925>^(*gpa method="Weighted" grade="9" term="S1,S2,Y1")<tabc 7.425>^(*credit_hours;9;S1,S2,Y1)<tabc 7.95>^(*credit_hours;9;S1,S2,Y1)<tabc 7.95>^(*credit_hours;9;S1,S2,Y1)</tabc 7.95>^(*credit_hours;9;S1,S

Grade 10:<tabc 5.75>^(*gpa method="Added Value" grade="10" term="S1,S2,Y1")<tabc 6.325>^(*gpa method="Added Value" grade="9,10" term="S1,S2,Y1")<tabc 6.925>^(*gpa method="Weighted" grade="9,10" term="S1,S2,Y1")<tabc 7.425>^(*credit_hours;10;S1,S2,Y1)<tabc 7.95>^(*credit_hours;9,10;S1,S2,Y1)

Grade 11:<tabc 5.75>^(*gpa method="Added Value" grade="11" term="S1,S2,Y1")<tabc 6.325>^(*gpa method="Added Value" grade="9,10,11" term="S1,S2,Y1")<tabc 6.925>^(*gpa method="Weighted" grade=9,10,11" term="S1,S2,Y1")<tabc 7.425>^(*credit_hours;11;S1,S2,Y1)<tabc 7.95>^(*credit_hours;9,10,11;S1,S2,Y1)

Grade 12:<tabc 5.75>^(*gpa method="Added Value" grade="12" term="S1,S2,Y1")<tabc 6.325>^(*gpa method="Added Value" grade=9,10,11,12" term="S1,S2,Y1")<tabc 6.925>^(*gpa method="Weighted" grade="9,10,11,12" term="S1,S2,Y1")<tabc 7.425>^(*credit_hours;12;S1,S2,Y1)<tabc 7.95>^(*credit_hours;9,10,11,12;S1,S2,Y1)

Career Cum Weighted GPA: ~(*gpa method="Added Value" grade="9,10,11,12" term="S1,S2,Y1") <table.7> Career Cum Rank: ~(*classrank method="Sylvania Weighted GPA"result="rankof")

All the GPA calc methods that you build will show up in drop down menus on screens in PowerSchool so that the correct method can be linked to the correct screen set up and display in PowerSchool. This screen shot is of the "GPA Student Screen" set up. This is the building block screen that produces the "cum info" screen of students. This is a very helpful screen for counselors and administrators when set up correctly.

ck Loo	kup			
e of Cu	rrent GPA to display under schedule			
		Added Value		
umulativ	e Info	JH Cum GPA 7		
	Row Title	JH Current GPA 8		Data
1.	Cumulative Weighted GPA	JH Q1 GPA JH Q2 GPA		~(*gpa method="Whitmer Added Value")
		JH Q3 GPA		
		Simple		
2.	Class Rank Weighted	Simple Percent Weighted		~(*classrank method="Whitmer Added Value"
		Weighted Percent Whitmer 4.0 Calc Method		result="rankoutof")
		Whitmer Added Value	Ν	
3.	Cumulative Unweighted GPA	Whitmer Q1 AV Projected	~	~(*gpa method="Whitmer 4.0 Calc Method")
		Whitmer Q2 AV Projected Whitmer Q3 AV Projected		
		Whitmer Q4 AV Projected		
4.	Class Rank Unweighted			~(*classrank method="Whitmer 4.0 Calc Method
				result="rankoutof")
5.	Cumulative Credit Hours			~(*oredit_hours)
8.	Q1 GPA			~(*gpa method="Whitmer Q1 AV Projected"
				type="projected" term="q1")
7.	Q2 GPA			~(*gpa method="Whitmer Q2 AV Projected"
				type="projected" term="q2")
8.	Q3 GPA			~(*gpa method="Whitmer Q3 AV Projected"
				type="projected" term="q3")
9.	Q4 GPA			~(*gpa method="Whitmer Q4 AV Projected"
				type="projected" term="q4")
10.				
11.	Current Grade Book GPA			~(*gpa method="Whitmer Current GPA")
	-			

This screen shot is of the "Honor Roll" set up screen. Once again, you have a drop down menu of all GPA Calc methods that you have built. The appropriate calc method must be linked to the honor roll set up screen to produce an accurate honor roll. Since most area high schools are using the "weighted method" to evaluate potential/earned credit, you will most likely be looking to link your honor roll to the quarter calculation that is "projected" or the name you have given your "projected" set up.

Honor Roll Level: Whitmer Honor Roll

General	
Name	Honor Roll 4.0
Description	Honor Roll 4.0
Evaluation Order	1
Message	.tt.
GPA Options	
GPA Calculation Method	Whitmer Q1 AV Projected 💌
GPA result is	Added Value JH Cum GPA 7
Comparison	JH Cum GPA 8 JH Current GPA
Only include grades	JH Q1 GPA JH Q2 GPA JH Q3 GPA JH Q3 GPA
Credit Options	Simple
Potential credit	Weighted
Earned credit	Weighted Percent Whitmer 4.0 Calc Method
Number of unique courses	Whitmer Added Value Whitmer Current GPA
	Whitmer Q1 AV Projected Whitmer Q2 AV Projected
Grade Options	Whitmer Q3 AV Projected Whitmer Q4 AV Projected
Student must have	At least:
of these grades	(comma-separated)
and	At least:
-54	(

The final set up screen where you will see the drop down for GPA calc methods, is the "class rank" set up screen. The most obvious class rank method set up by schools is for the "career cumulative GPA", and is primarily a High School function. From the drop down you will be choosing your cumulative set ups for rank. The "Whitmer 4.0" is a weighted calc method respecting potential/earned credit. The "Whitmer added value" is a weighted method as well, but is pulling in the extra .5 and 1.0 values assigned to Honors and AP courses to the calculation.

Class Rank Method

General		
Description	Whitmer_Unweighted_4.0_GP/	A
GPA Calculation Method	Whitmer 4.0 Calc Method 💌	
GPA result is	Added Value JH Cum GPA 7	
Only include grades	JH Cum GPA 8 JH Current GPA	rrides GPA setting)
Exclude students	JH Q1 GPA JH Q2 GPA	rank
Include early graduates?	JH Q3 GPA JH Q4 GPA	
Early graduation exit code	Simple Simple Percent	
	Weighted Weighted Percent Whitmer 4.0 Calc Method Whitmer Added Value	
	Whitmer Current GPA Whitmer Q1 AV Projected Whitmer Q2 AV Projected Whitmer Q3 AV Projected Whitmer Q4 AV Projected	

CLASS RANK can also be used to produce quarterly GPAs. You simply set up a class rank method and link it to your quarterly GPA calc method. It will produce a listing for you of Quarter GPAs. In the example below, I created a high school quarter GPA report by setting up a rank method linked to "Whitmer Q1 AV Projected".

Class Rank Method	
General	
Description	Q1 GPAs
GPA Calculation Method	Whitmer Q1 AV Projected -
GPA result is	Numeric -
Only include grades	\Box that count in class rank (overrides GPA setting)
Exclude students	\Box that are excluded from class rank
Include early graduates?	
Early graduation exit code	

After "calculating class rank" I would then go to "system reports" and select "class rank" under grading and set up the running of the report. The following screen shot displays how I set up the running of this report, which by the way, has to run by grade level, so you will repeat this process as many times as necessary.

 \wedge

Class Ranking Report	
Option	Value
Grade Level	12 •
Class Rank Method	Whitmer Q1 AV Projected -
Display GPAs	to (leave blank to display all)
Display Percentiles	% to %

The next screen shot shows you the actual report. I eliminated student names from this report listing GPA values for the 9 weeks. Obviously this is not the complete report, just a screen shot of initial values displayed.

Whitmer Q1 AV Projected	
	10/24/2012 - Whitmer High School
GPA	Percentile
4.833	.19
4.667	.37
4.667	.37
4.625	.75
4.5	.93
4.5	.93
4.5	.93
4.4	1.49
4.375	1.68
4.375	1.68
4.333	2.05
4.3	2.24
4.286	2.43
4.286	2.43
4.25	2.80
4.25	2.80
4.25	2.80
4.25	2.80
4.25	2.80

<u>Basic Honor Roll Set Up</u>: After you set up and name the Honor Roll, you have to build the "levels". PowerSchool does a nice job of permitting set ups to run off one "named report" to address multiple levels, such as All A's, Honor Roll, Merit Roll. This would be a 3 level report. Below is a screen shot of a basic Junior High set up, linked to the appropriate GPA Calc Method for the 9 weeks, with GPA's of 3.5 or better, excluding students with D, F, I, even if they have a 3.5 or better.

⁹ Honor Roll Level: WJH Honor Roll	
General	
Name	Honor Roll
Description	Distinguished3.5 or better with to D or F
Evaluation Order	2
Message	Congratulations on making the Distinguished Honor Roll! You achieved a GPA of 3.5 or better with no D or F.
GPA Options	\mathbf{k}
GPA Calculation Method	JH Q1 GPA
GPA result is	Numeric -
Comparison	greater than or equal to 🔽 3.5
Only include grades	☑ that count in honor roll (overrides GPA setting)
Credit Options	
Potential credit	greater than or equal to 💌
Earned credit	greater than or equal to
Number of unique courses	greater than or equal to 💌
Grade Options	
Student must have	None
of these grades	D, F, I (comma-separated)
and	
of these grades	(comma-separated)
and	At least:
of these grades	(comma-separated)
and	At least:
of these grades	(comma-separated)

Honor Roll can also be set up as an "Eligibility Report", basically an Honor Roll looking at the bottom of the GPA hierarchy. The example below is set to generate GPA values for the quarter that are less than or equal to 1.25.

Honor Roll Level: Grade 9-12 Eligibility Report

General		
Name		Eligibility Report
Description		
Evaluation Order		1
Message	R.	:
GPA Options		
GPA Calculation Method		9-12 Elig Calc
GPA result is		Numeric 💌
Comparison	•	less than or equal to 🔽 1.25
Only include grades		\square that count in honor roll (overrides GPA setting)
Credit Options		
Potential credit		greater than or equal to 💌
Earned credit		greater than or equal to
Number of unique courses		greater than or equal to 💌
Grade Options		
Student must have		At least
of these grades		(comma-separated)
and		At least
of these grades		(comma-separated)
and		At least
of these grades		(comma-separated)
	K	

If you are seeking to combine F's, such as 1 or more F's to this report, you would have to complete the bottom portion of the screen.