

Math and Science Statistics Report



Management Technology Helpdesk

May 2015

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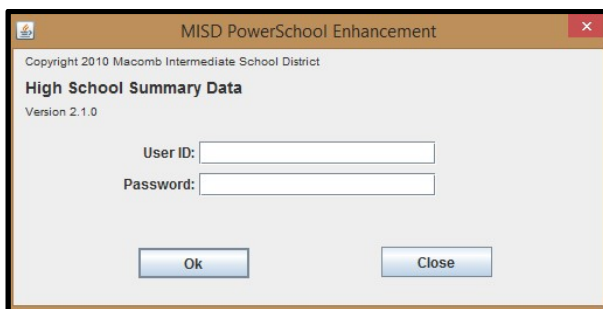
Math and Science Statistics Report

Version 2.1.0 – April 2015

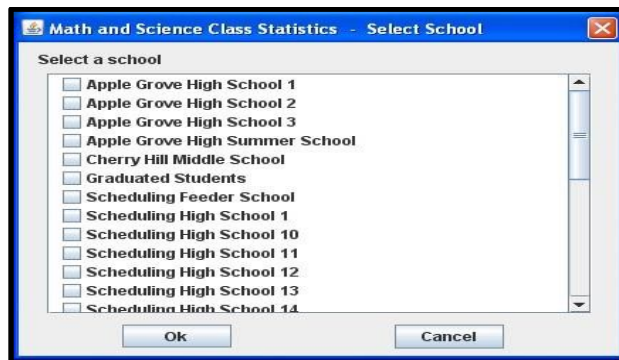
This program will produce the Math and Science Class Statistics report. It will also allow you to submit your statistics totals to the MISD for inclusion in the county-wide statistics project. It also includes important drill-down features.

To run the program:

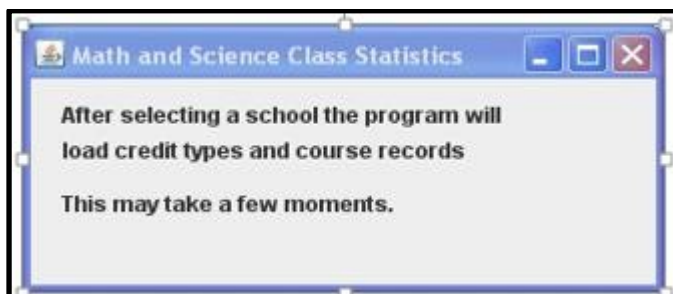
You will be asked to log in. If you do not have an ID and password for our PowerSchool enhancements, let us know and one will be provided.



You will then select a school.



After you select a school, click Ok. The program will load credit types and course records for the selected school. Depending on connection speed and server traffic, this process may take a few moments. You may see the following screen.



After this initial load process has completed you will see the Math/Science Statistics Report main screen. Select a folder to store your selected settings. Select what year to run*; the data will be extracted from the date you set from that year. Select the low grade in your High School. Select whether the school is in an Urban or Rural setting. Select the GPA that should be used to report the average GPA by grade. The program will write the report to a PDF file. Select a path and file name for the report PDF file.

****Prior to running this report make sure all of your grades have been stored, update Class Rank for all grade levels or if you are using the GPACUR_MISD custom field make sure the field has current data, and run Refresh Premier Attendance Views. If running for a prior year remember to setup a GPA for that year and update class rank for that year as well.***

You may click “Save Settings” at any time to save your entries.

The report will be written to a PDF file.

The High School Summary Data screen now has drill-down links that provide detailed information used to obtain the totals.

High School Summary Data

Apple Grove High School
For students actively enrolled on: 04/17/2014

Click on any total to show the data that was used to calculate the total

All Students

Building Enrollment: **1,678**

	<u>Students Enrolled</u>	<u>Percentage Failed</u>
Algebra I	347	8.357%
Geometry	292	8.904%
Algebra II	390	9.744%
Chemistry	271	14.022%
Physics	292	7.877%
Biology	446	2.691%

Class of

<u>Class</u>	<u>Enrollment</u>	<u>Average GPA</u>	<u>Average Daily Attendance</u>	<u>Students Suspended</u>	<u>Days of Suspension</u>
2014	413	2.590	92.6%	1	1
2015	445	2.490	97.8%	6	24
2016	433	2.486	99.7%	12	29
2017	387	2.935	99.7%	3	10

9th Grade

Number of Students: **387**

22.5% (87) Failed 1 or more classes

	<u>1st Term</u>			<u>2nd Term</u>			<u>3rd Term</u>		
	<u>Nbr</u>	<u>Pct</u>	<u>ADA</u>	<u>Nbr</u>	<u>Pct</u>	<u>ADA</u>	<u>Nbr</u>	<u>Pct</u>	<u>ADA</u>
Failed 1 class only:	69	17.8%	99.4%	0	0.0%	0.0%	0	0.0%	0.0%
Failed 2 classes only:	12	3.1%	99.5%	0	0.0%	0.0%	0	0.0%	0.0%
Failed 3 or more classes:	6	1.6%	98.6%	0	0.0%	0.0%	0	0.0%	0.0%
Failed Algebra 1:	14	3.6%	99.0%	0	0.0%	0.0%	0	0.0%	0.0%
Failed any Math:	16	4.1%	99.1%	0	0.0%	0.0%	0	0.0%	0.0%
Failed Language Arts:	40	10.3%	99.5%	0	0.0%	0.0%	0	0.0%	0.0%
Failed Geometry:	0	0.0%	0.0%	0	0.0%	0.0%	0	0.0%	0.0%

<u>Totals for School Year</u>			
	<u>Nbr</u>	<u>Pct</u>	<u>ADA</u>
Failed 1 class only:	69	17.8%	99.4%
Failed 2 classes only:	12	3.1%	99.5%
Failed 3 or more classes:	6	1.6%	98.6%
Failed Algebra 1:	14	3.6%	99.0%
Failed any Math:	16	4.1%	99.1%
Failed Language Arts:	40	10.3%	99.5%
Failed Geometry:	0	0.0%	0.0%

When completed, the program will attempt to open the PDF using the default viewer on your system.

Here is a sample of the report:

High School Summary Data				Run date/time					
Totals for students actively enrolled on: 04/17/2014		Apple Grove High School		04/13/2015					
		District: 50030 Building: 05596		10:39:12 AM					
<hr/>									
<u>All Students</u>									
Building Enrollment: 1,678									
	<u>Students Enrolled</u>	<u>Percentage Failed</u>							
Algebra I	347	8.357%							
Geometry	292	8.904%							
Algebra II	390	9.744%							
Chemistry	271	14.022%							
Physics	292	7.677%							
Biology	446	2.691%							
<hr/>									
<u>Class of</u>									
<u>Class</u>	<u>Enrollment</u>	<u>Average GPA</u>	<u>Average Daily Attendance</u>	<u>Students Suspended</u>	<u>Days of Suspension</u>				
2014	413	2.590	92.6%	1	1				
2015	445	2.490	97.8%	6	24				
2016	433	2.486	99.7%	12	29				
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<hr/>									
<u>9th Grade</u>									
Number of Students: 387									
22.5% (87) Failed 1 or more classes.									
	<u>1st Term</u>		<u>2nd Term</u>			<u>3rd Term</u>			
	<u>Nbr.</u>	<u>Pct.</u>	<u>ADA</u>	<u>Nbr.</u>	<u>Pct.</u>	<u>ADA</u>	<u>Nbr.</u>	<u>Pct.</u>	<u>ADA</u>
Failed 1 class only:	69	17.8%	99.4%	0	0.0%	0.0%	0	0.0%	0.0%
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Failed Language Arts:	40	10.3%	99.5%	0	0.0%	0.0%	0	0.0%	0.0%
Failed Geometry:	0	0.0%	0.0%	0	0.0%	0.0%	0	0.0%	0.0%
<hr/>									
<u>Totals for School Year</u>									
	<u>Nbr.</u>	<u>Pct.</u>	<u>ADA</u>						
Failed 1 class only:	69	17.8%	99.4%						
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Failed Algebra 1:	14	3.6%	99.0%						
Failed any Math:	16	4.1%	99.1%						

Review your report for accuracy.

It is also important to determine if the Average Daily Attendance (ADA) looks to be accurate. To calculate average daily attendance the program will look at student's enrollment and attendance. **If a student is present for at least one class in a day, the student is considered present for that day.**

THIS IS VERY IMPORTANT!

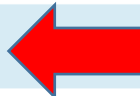
The ADA calculation also looks at the "Exclude from Attendance" flag for each course to count attendance. It is very important that you check this flag for any course where attendance may not be taken. For example if each student has a homeroom course in their schedule and attendance is not taken in that course, the "Exclude from Attendance" must be checked in the course record in PowerSchool. If it is not, and attendance is not taken in that homeroom course then every student will

appear to have 100% ADA. If a student is marked absent in all other classes on a day and not marked absent in that homeroom, it will appear as though the student attended at least one class (homeroom) on that day and will be considered present on that day for the ADA calculation. \

Edit Course District Information View

District
Fees
Prerequisites
Availability
Equivalencies

Label	Value
Course Name	Algebra
Course Number	10003A
Course Name	<input style="border: 1px solid gray;" type="text" value="Algebra"/> x
Alternate Course Number	<input style="width: 100%;" type="text"/>
Credit Hours	<input style="width: 100%;" type="text" value="1.0"/>
Maximum Credit Hours	<input style="width: 100%;" type="text" value="0.0"/>
CIP Code	<input style="width: 100%;" type="text"/> <input type="checkbox"/> Vocational Class
Program for All Sections	<input style="width: 100%;" type="text"/> (if not blank overrides Section selection)
Credit Type	<input style="width: 100%;" type="text" value="MAT"/> (no spaces)
Default Maximum Enrollment	<input style="width: 100%;" type="text" value="0"/>
Department	<input style="width: 100%;" type="text"/> Associate
Subject Area	<input style="width: 100%;" type="text"/>
Course Notes	<div style="border: 1px solid gray; height: 20px; width: 100%;"></div>
Exclude From Attendance (Optional: Use only to exclude all sections from counting towards ADM/ADA for students.)	<input type="checkbox"/>
Exclude From Storing Final Grades (Use for Courses that are not graded so blank records are not stored with final grades.)	<input type="checkbox"/>
Grade Scale	<input style="width: 100%;" type="text"/>



After the report has been rendered you will see the following “Send data” dialog box:

Math/Science Statistics - Send data ✖

**Use this procedure to send your report totals to the MISD after you have verified their accuracy.
No student identifiable data will be transmitted.**

Dataset Description:

This may be any text you choose to identify but yet preserve the anonymity of your school. For example: High School X

Comments:

Any comments you put here will be included in the email message that is sent to the MISD.

Review your report for accuracy. If required by your district, obtain approval from your Superintendent or Curriculum Director before sending. If your totals are not ready for submission, click “Do Not Send”.

When you are ready to submit your totals, enter a Dataset Description and any comments you would like delivered with your data. Then click the “Send” button.

The program will attempt to automatically send your data and comments by email. If successful you will see the following message:



If you see this message, you are done!

If the send is unsuccessful you will see an error message. In that case please send an email with the totals file attached. The totals file is named “mStatExp.xml”. You will find it in the folder you selected to store your settings. See the main screen, settings tab for the “Settings Folder” you selected. Make sure you send “mStatExp.xml” and not “mthSciStats.xml”. The file mStatExp.xml contains your totals for export. The file “mthSciStats.xml” contains the program options and courses you selected.

Summary Data Screen

Drill down into each link for detailed information. Once you click on a link the display box will produce a list representing that number. Each heading is sortable. You can copy and paste this information into a new document by hiliting and using Ctrl C and Ctrl V.

The screenshot displays the 'High School Summary Data' interface for Apple Grove High School, dated 04/17/2014. The main window shows 'All Students' with a building enrollment of 1,678. A table lists subjects: Algebra I (347 students, 8.357% failed), Geometry (292 students, 8.904% failed), Algebra II (390 students, 9.744% failed), Chemistry (271 students, 14.022% failed), Physics (292 students, 7.877% failed), and Biology (446 students, 2.691% failed). A 'Class of' table shows enrollment and GPA for years 2014-2017. A '9th Grade' section shows 387 students with 22.5% (87) failing one or more classes, with detailed breakdowns by term and subject. Several pop-up windows are visible: 'Algebra I Students Enrolled: 347', 'Class of 2014 Average GPA: 2.590', 'Class of 2014 Average Daily Attendance: 92.6%', 'Class of 2017 Days of Suspension: 29', and '1st Term Failed 3 or more classes: 98.6%'. A callout box explains that 'Not Available' in the GPA column indicates a student was active on the selected date but not active when the class rank was updated.

Algebra I Students Enrolled: 347

Seque.	Student ID	Student Name	Grade Level
1	9553	AMARIA RENEE	9
2	9943	KRISTOFFER	9
3	9431	MARVIN VINCENT	9
4	10425	AUTUMN SAPPHI	9
5	8236	CHARLES WESLEY	9

Class of 2014 Average GPA: 2.590

Stude.	Student Name	GPA
1	JONATHAN EDWARD	1.082
2	SHELBY ANN	1.694
3	MUHMED SHADDIE	3.157
4	DAJANE DANYELE	2.747

Class of 2014 Average Daily Attendance: 92.6%

Sequ.	Stude.	Student Name	Days	Days	AD
285	21955	JONATHAN EDW...	188	165	87.8%
139	22674	SHELBY ANN	188	188	100.1%
133	22762	DAJANE DANYELE	188	188	100.1%
362	5543	KAYLA CHRIS...	188	187	99.5%

Class of 2017 Days of Suspension: 29

Seq.	Student	Student Name	Susp. Dates (Item Nbr.)
1	9553	AMARIA RENEE	28/02/2013
2	9943	KRISTOFFER	28/11/2013
3	9431	MARVIN VINCENT	28/04/2013
4	10425	AUTUMN SAPPHI	28/05/2013
5	8236	CHARLES WESLEY	28/05/2013
6	11088	DESHANE CRISTE	28/09/2013
7	8295	EMMA SIMONE	28/10/2013
8	8295	EMMA SIMONE	28/12/2013
9	8295	EMMA SIMONE	28/12/2013

9th Grade

Number of Students: 387
22.5% (87) Failed 1 or more classes

	1st Term			2nd Term			3rd Term		
	Nbr	Pct	ADA	Nbr	Pct	ADA	Nbr	Pct	ADA
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Failed Language Arts:	40	10.3%	99.5%	0	0.0%	0.0%	0	0.0%	0.0%
Failed Geometry:	0	0.0%	0.0%	0	0.0%	0.0%	0	0.0%	0.0%

Totals for School Year

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Failed Language Arts:	40	10.3%	99.5%
Failed Geometry:	0	0.0%	0.0%

1st Term Failed 3 or more classes: 98.6%

Sequ.	Studen.	Student Name	ADA
5	11750	ALEXANDER MI	99.5%
4	9228	Jessica Ariene	100.0%
6	32353	RAVEN ARROWNE	99.5%
2	9010	Anthony Williams	95.7%
1	7558	R. RYAN CHR.	97.9%
3	9097	TYLER DAN	98.9%

The All Students area will give you the number of active students in these classes (coded for TSDL) as of the date you selected in the setup. It looks at stored grades for a particular subject area (also references Courses TSDL coding) and references TSDL in Stored Grades to find failed classes and calculates the percentage failed.

The Class of section lists enrollment by grad year (from re-enrollment table & current enrollment info), the Average GPA & ADA (Premier Attendance) of these students. It also gives the number of students suspended and number of days suspended (looks at attendance for SUSP – not case sensitive). If you click on the number of Students Suspended you will see the list of students that have suspensions marked in attendance. Suspension count is **not** taken from discipline log entries, however if you click on a student’s name, a list of their discipline log entries will be displayed. If the student was suspended but there are no discipline log entries, the Discipline Log Entries screen will display “no log entries found”.

The top screenshot shows the Discipline Log Entries window for student 32551. The 'Log Entry Text' field contains a warning: "This student has absences marked as suspensions, but does not have any discipline log entries." The right-hand table lists student names and days suspended, with 'WALTER JR' highlighted.

The bottom screenshot shows the Discipline Log Entries window for student 12058. The 'Log Entry Text' field contains: "09/11/13 - Prof/Obs Gest" and "09/16/13 - Dis To Staff". The 'Log Entry Text' field contains: "Profanity and disrespect to staff member (1 OSS) -Crow". The 'Consequence' field contains: "Suspension at Home/Combo". The right-hand table lists student names and days suspended, with 'NICKOLAUS' highlighted.

Click on each discipline log entry to display the information about that particular entry

9th Grade displays information on core classes by term, then the total of all terms.

We encourage you to open each area to see all the great information that you can have at your fingertips without having to search yourself. Please pay close attention to the attendance areas and verify they are correct.