



<http://gems.opi.mt.gov/Pages/Default.aspx>



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Contact Information

GEMS Project Team

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- Erin Thielman, Business Analyst
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For all inquiries and technical support, please contact the GEMS Help Desk

- Phone: (406) 444-5222
- Email: opigemshelpdesk@mt.gov

To request access to the GEMS secure site, please use this form:

- [GEMS Secure Access Request Form](#)

To revoke access from the GEMS secure site, please use this form:

- [GEMS Secure Access Revocation Form](#)

GEMS Help Desk: phone-(406) 444-5222, [email-opigemshelpdesk@mt.gov](mailto:opigemshelpdesk@mt.gov)

Training Center:

User Manual

Online Training

Frequently Asked Questions

Search the OPI Knowledge Base

Parameter Based Reports versus Data Analysis Dashboards

Parameter Based Reports contains a set of filtering tools and pre-defined parameters used to enable users to search within the various GEMS domains. Parameter Based Reports are more specific or granular than the information found in the Quick Fact Documents libraries.

Data Analysis Dashboards allows users to draw from a large amount of data to create customized charts and graphs.

Scenario 1 (GEMS Public):

Display the percent of students in each AYP category for a particular school disaggregated by various student characteristics and by content area and display this as comparison for three separate school years.

Select Reports and Data

Select the Parameter Based Reports

Select Adequate Yearly Progress (AYP) Trends

*The most recent year the data is available is the default.

Select State/District/School

Select View Report

The screenshot shows the 'Reports & Data' section of the GEMS application. The breadcrumb trail is 'GEMS > Reports & Data > Parameter Based Reports'. A navigation bar at the top includes 'I am interested in', 'Reports & Data', 'Find Schools', 'Training Center', and 'Contact Us'. A left sidebar contains 'Quick Fact Documents', 'Parameter Based Reports', and 'Data Analysis Dashboards'. The main content area has a heading 'List of Student Achievement Parameter Based Reports:' followed by a bulleted list of reports: 'Adequate Yearly Progress (AYP) Graduation Rate Trends', 'Adequate Yearly Progress (AYP) Improvement Status', 'Adequate Yearly Progress (AYP) Trends', 'General Educational Development (GED) Results by Age', 'MontCAS (CRT) Proficiency Comparisons by Subgroup', and 'MontCAS (CRT) Proficiency Trends'. A note above the list states: 'This page lists all Parameter Based Reports contained in GEMS. The reports are organized by data domain (e.g. student achievement, school finance, etc). Click on the name of a report to view it.'

The screenshot shows the 'Adequate Yearly Progress (AYP) Trends' page. The breadcrumb trail is 'GEMS > Student Achievement > Adequate Yearly Progress (AYP) Trends'. The navigation bar includes 'I am interested in', 'Reports & Data', 'Find Schools', 'Training Center', and 'Contact Us'. The left sidebar contains 'Overview', 'Student Achievement Dashboard', 'Accountability', 'Adequate Yearly Progress (AYP) Improvement Status', and 'Adequate Yearly Progress (AYP) Trends'. The main content area has a heading 'Adequate Yearly Progress (AYP) Trends' and a form with a 'Year' dropdown set to '2010-2011', a 'State/District/School' dropdown set to '<Select a Value>', and a 'View Report' button. A 'Parameter Based Report Help' link is visible in the top right.

Scenario 2 (GEMS Public):

Display a comparison of the at or above proficiency trends in math for all students and students new to the school and export to PowerPoint.

Select Reports and Data

Select the Data Analysis Dashboards

Select Student Achievement Dashboard

Reports & Data

- Quick Fact Documents
- Parameter Based Reports
- Data Analysis Dashboards**

GEMS > Reports & Data > Data Analysis Dashboards

This page lists all Data Analysis Dashboards contained in GEMS. The dashboards are organized by data domain (e.g. student achievement, school finance, etc). Click on the name of a dashboard to view it.

- List of Student Achievement Data Analysis Dashboards:**
- National Assessment of Educational Progress (NAEP)
 - Student Achievement Dashboard

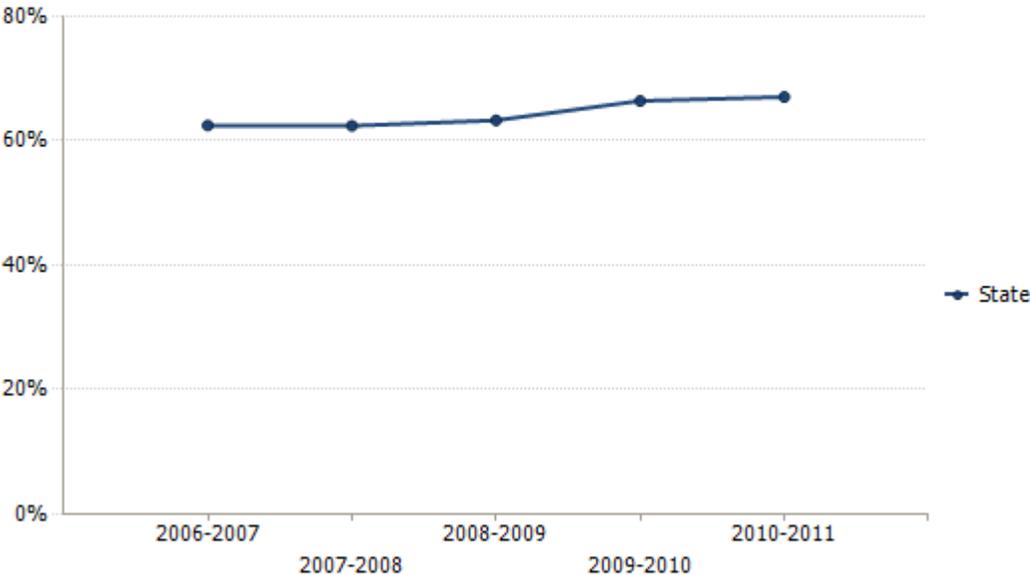
Results:

GEMS > Student Achievement > Student Achievement Dashboard

Student Achievement Dashboard : **MontCAS (CRT)** | Adequate Yearly Progress (AYP) | NAEP | Graduation Rates

Year: Districts and Schools: **State**

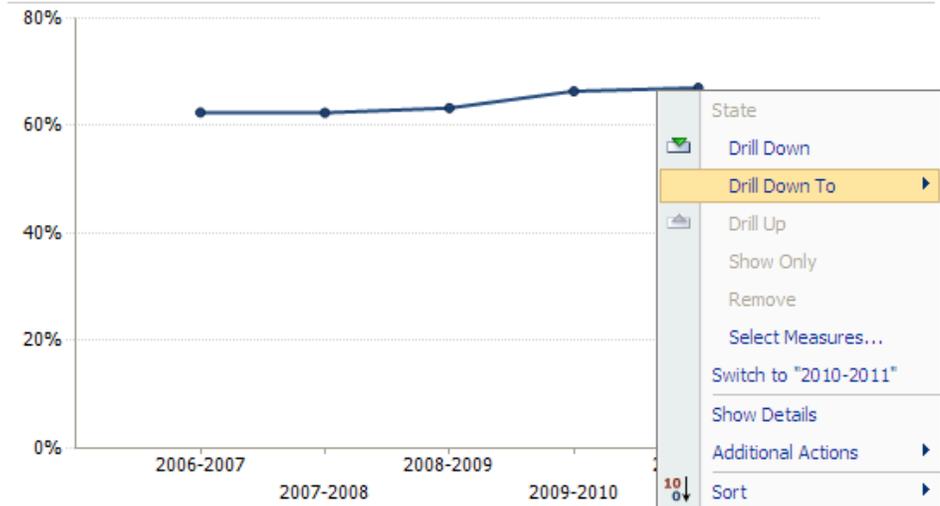
CRT Mathematics At or Above Proficiency Trends



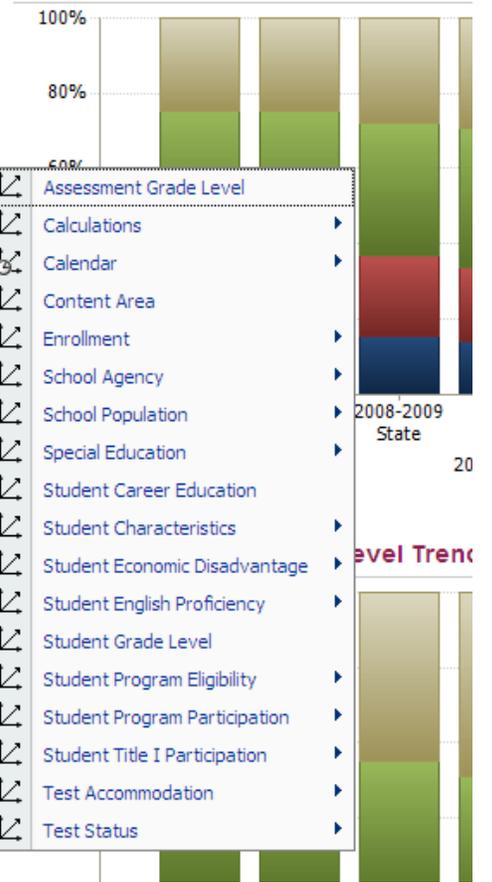
Right Click on any area of the line.

Year: 2010-2011 Districts and Schools: State

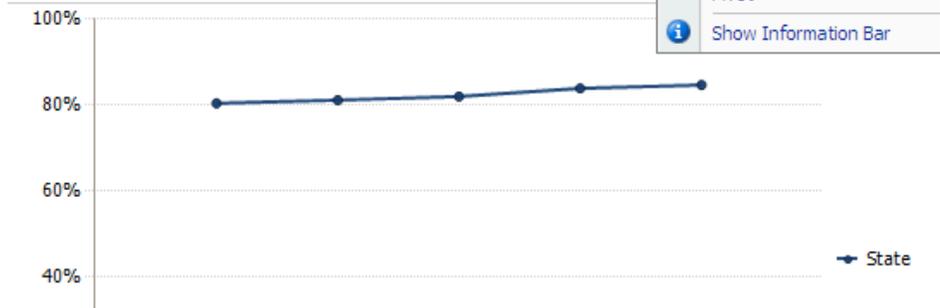
CRT Mathematics At or Above Proficiency Trends



CRT Mathematics Performance Level 1



CRT Reading At or Above Proficiency Trends



- State
- Drill Down
- Drill Down To
- Drill Up
- Show Only
- Remove
- Select Measures...
- Switch to "2010-2011"
- Show Details
- Additional Actions
- Sort
- Filter
- Pivot
- Show Information Bar

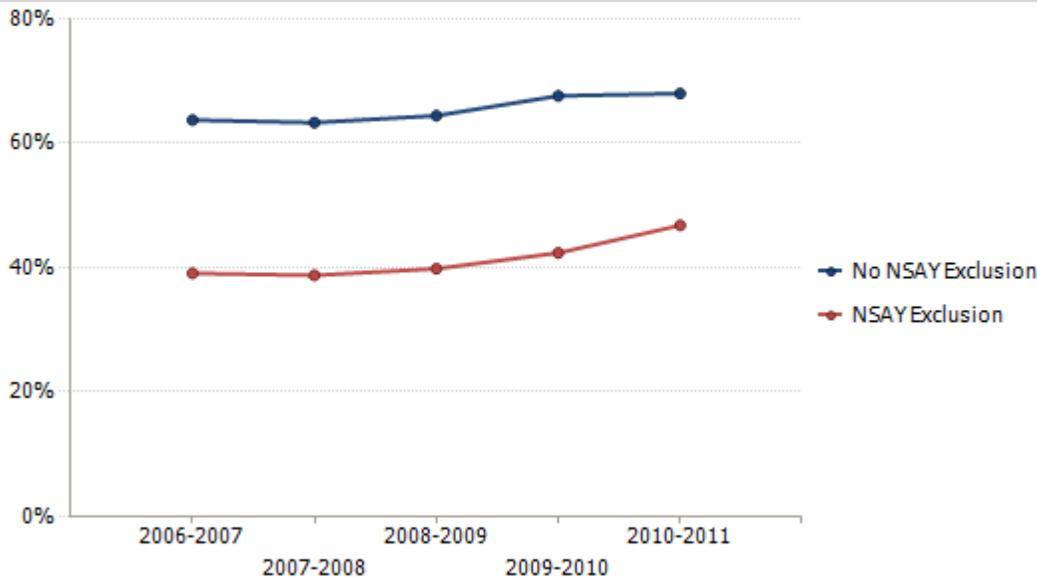
- Assessment Grade Level
- Calculations
- Calendar
- Content Area
- Enrollment
- School Agency
- School Population
- Special Education
- Student Career Education
- Student Characteristics
- Student Economic Disadvantage
- Student English Proficiency
- Student Grade Level
- Student Program Eligibility
- Student Program Participation
- Student Title I Participation
- Test Accommodation
- Test Status

Select Test Status
Select NSAY Exclusion

Year: 2010-2011 Districts and Schools: State

CRT Mathematics At or Above Proficiency Trends

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To download the data to PowerPoint, click the small arrow that appears to the right of the report name and select export to PowerPoint.

Scenario 3 (GEMS Secure or GEMS Training):

Display CRT scores for a new student. **NOTE:** This will only work if you have been given secure access. The GEMS Secure Access Request Form is located on the contact information tab. The district’s authorized representative will sign and return the form to Mary Graff, P O Box 202501, Helena, MT 59620-2501 or fax (406) 444-1369.

Select Reports and Data

Select Parameter Based Reports

Select MontCAS (CRT) Student Trends

I am interested in	Reports & Data	Find Schools	Training Center	Contact Us
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Reports & Data GEMS Secure > Reports & Data > Parameter Based Reports

Quick Fact Documents

Parameter Based Reports

Data Analysis Dashboards

Parameter Based Reports contained in GEMS. The reports are organized by data domain (e.g. student achievement, school finance, etc). Click on the name of a report to view it.

List of Student Achievement Parameter Based Reports:

- Adequate Yearly Progress (AYP) Graduation Rate Trends
- Adequate Yearly Progress (AYP) Improvement Status
- Adequate Yearly Progress (AYP) Preliminary Report
- Adequate Yearly Progress (AYP) Trends
- General Educational Development (GED) Results by Age
- MontCAS (CRT) Proficiency Comparisons by Subgroup
- MontCAS (CRT) Proficiency Levels and Scaled Scores
- MontCAS (CRT) Proficiency Trends
- MontCAS (CRT) Student Trends

Select School Year
 Select State/District/School
 Select Student Full Name
 Select View Report

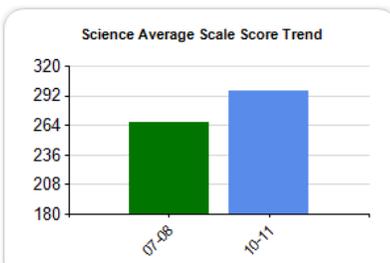
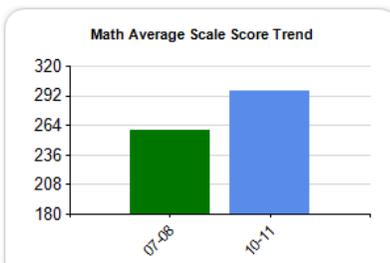
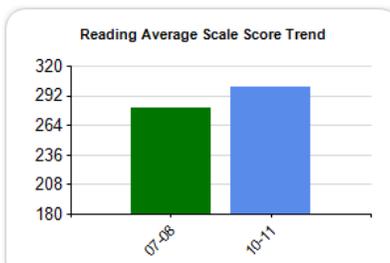
MontCAS (CRT) Student Trends

School Year: Alternate Assessment:
 State/District/School: Student Full Name:

1 of 1 Find | Next

[Data Definition & Explanations](#)

Fiscal Year	Test Name	Score	Achievement Level
2007-2008	10th Grade Reading	280	Proficient
2007-2008	10th Grade Mathematics	259	Proficient
2007-2008	10th Grade Science	267	Proficient
2010-2011	10th Grade Reading	300	Advanced
2010-2011	10th Grade Mathematics	296	Advanced
2010-2011	10th Grade Science	296	Advanced
2010-2011	10th Grade Reading	0	Not Tested
2010-2011	10th Grade Mathematics	0	Not Tested
2010-2011	10th Grade Science	0	Not Tested



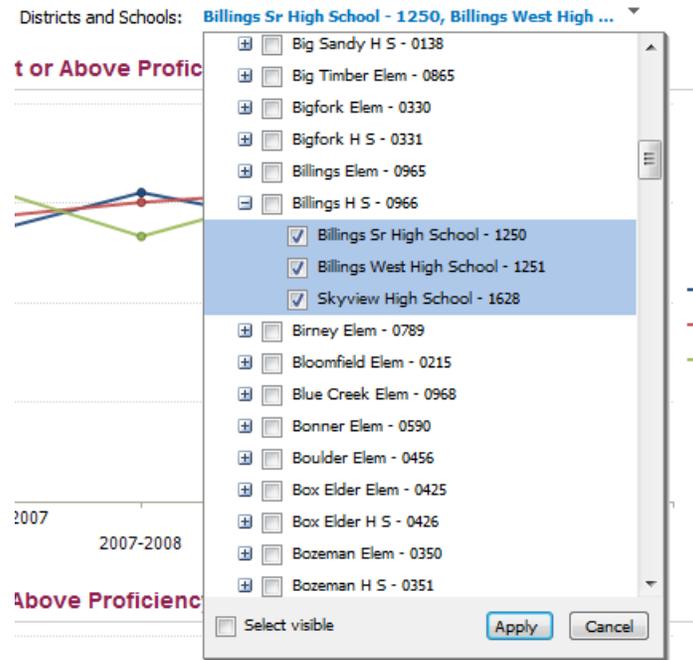
Scenario 4 (GEMS Public):

Display SPED, Title I, and FRL At or Above Proficiency percentages for the last three school years for a selected set of high schools.

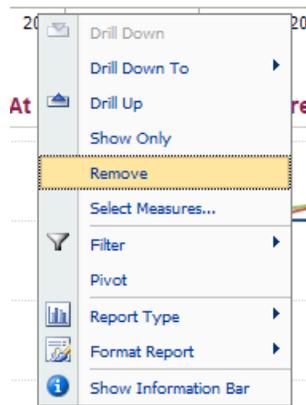
Select I am interested in:

Select Student Achievement Dashboard

Select a set of high schools using the Districts and Schools filter.

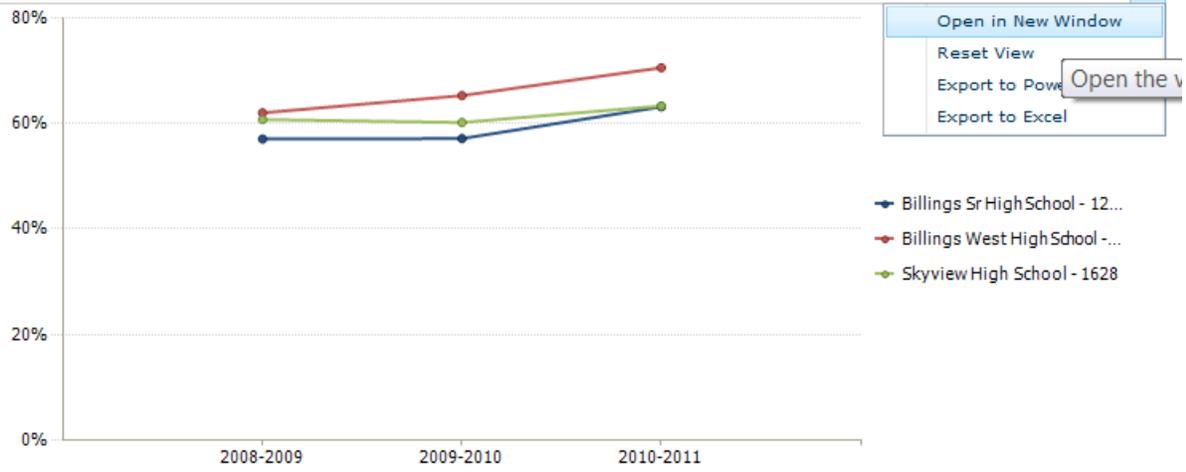


In the CRT Mathematics At or Above Proficiency chart, right click on a school year on the x axis and click Remove to remove it from the display. Do this again for one more year in the chart until you get the last 3 years of data.



Use the web part menu to open the chart into a new window.

CRT Mathematics At or Above Proficiency Trends

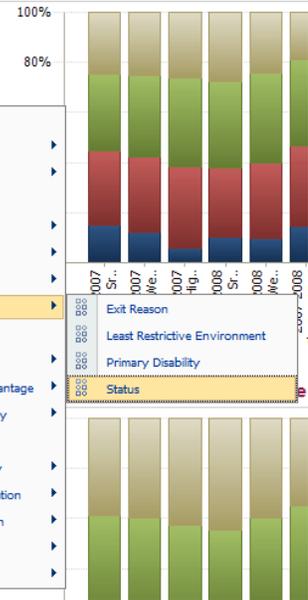


Right click on a line in the chart to drill down to SPED Status for that school building.

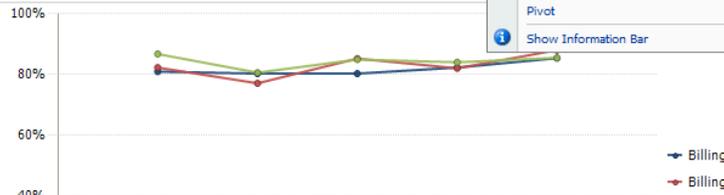
CRT Mathematics At or Above Proficiency Trends



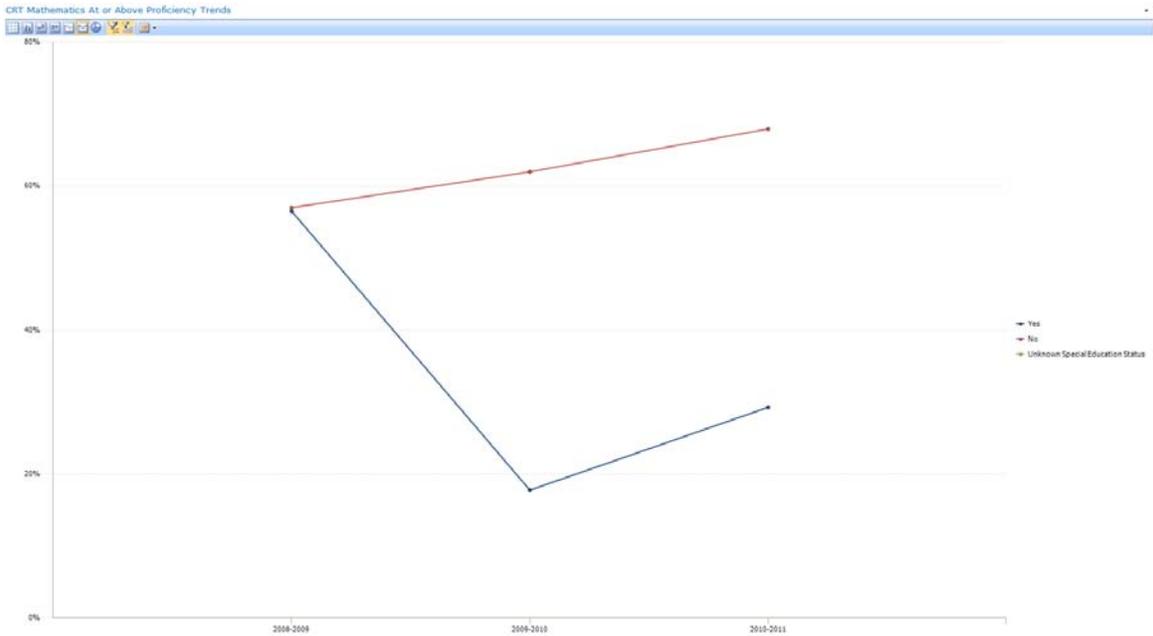
CRT Mathematics Performance Level



CRT Reading At or Above Proficiency Trends



Result:



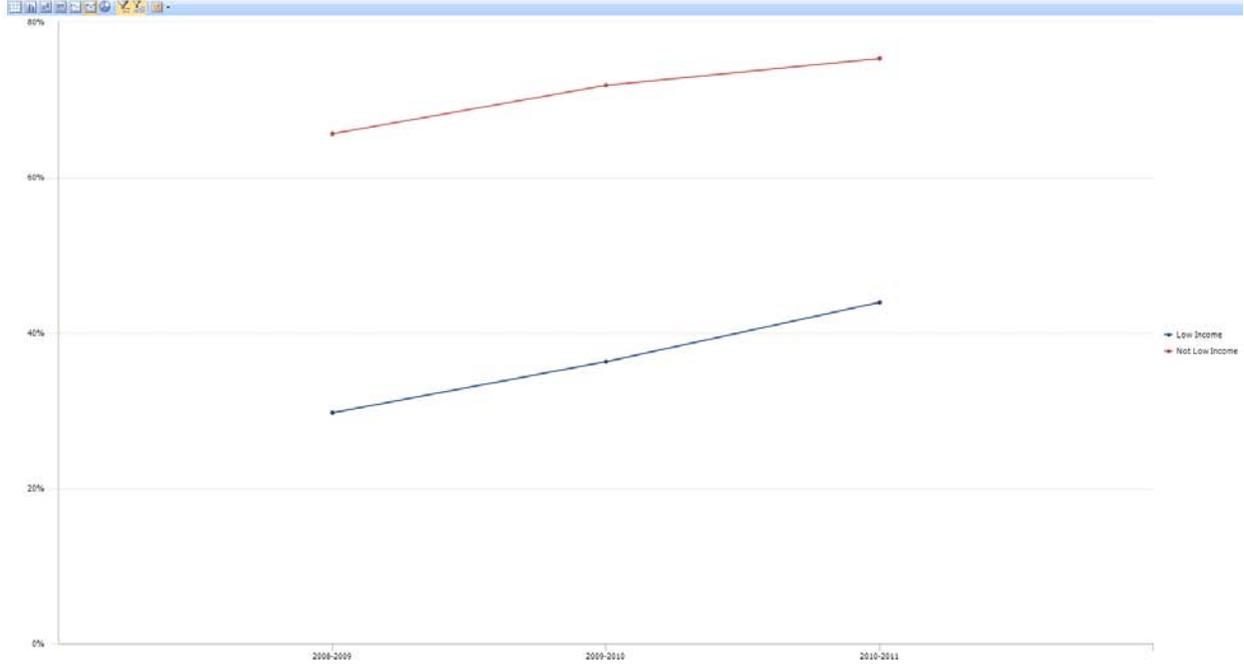
Click the back button on your browser.

Right click on a line in the chart to drill down to Income Status.

Skyview High School - 1628

- Drill Down
- Drill Down To**
 - Assessment Grade Level
 - Calculations
 - Calendar
 - Content Area
 - Enrollment
 - School Agency
 - School Population
 - Special Education
 - Student Career Education
 - Student Characteristics
 - Student Economic Disadvantage**
 - Income Hierarchy
 - Income Status**
 - Economically Disadvantaged
 - Student English Proficiency
 - Student Grade Level
 - Student Program Eligibility
 - Student Program Participation
 - Student Title I Participation
 - Test Accommodation
 - Test Status
- Drill Up
- Show Only
- Remove
- Select Measures...
- Switch to "2009-2010"
- Decomposition Tree
- Show Details
- Additional Actions
- Sort
- Filter
- Pivot
- Show Information Bar

Result:



Click the back button on your browser.

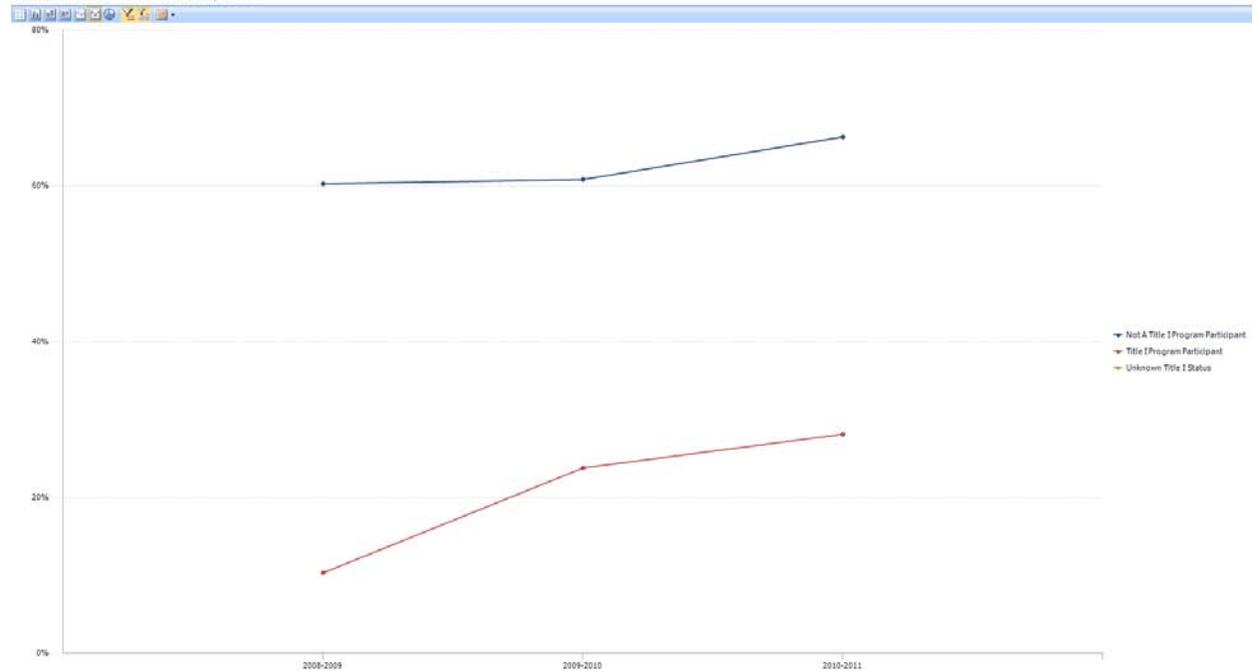
Right click on a line in the chart to drill down to Title I Participation Status.

Billings West High School - 1251

- Drill Down
- Drill Down To**
 - Assessment Grade Level
 - Calculations
 - Calendar
 - Content Area
 - Enrollment
 - School Agency
 - School Population
 - Special Education
 - Student Career Education
 - Student Characteristics
 - Student Economic Disadvantage
 - Student English Proficiency
 - Student Grade Level
 - Student Program Eligibility
 - Student Program Participation
 - Student Title I Participation**
 - Title I Career Participation
 - Title I Counseling Participation
 - Title I Health Participation
 - Title I Math Participation
 - Title I Other Instructional Participation
 - Title I Other Service Participation
 - Title I Program Participation Status**
 - Title I Program Type Description
 - Title I Reading Participation
 - Title I Science Participation
 - Title I Social Sciences Participation
 - Test Accommodation
 - Test Status
- Drill Up
- Show Only
- Remove
- Select Measures...
- Switch to "2009-2010"
- Decomposition Tree
- Show Details
- Additional Actions
- Sort
- Filter
- Pivot
- Show Information Bar

Result:

CRT Mathematics At or Above Proficiency Trends



Scenario 5 (GEMS Public):

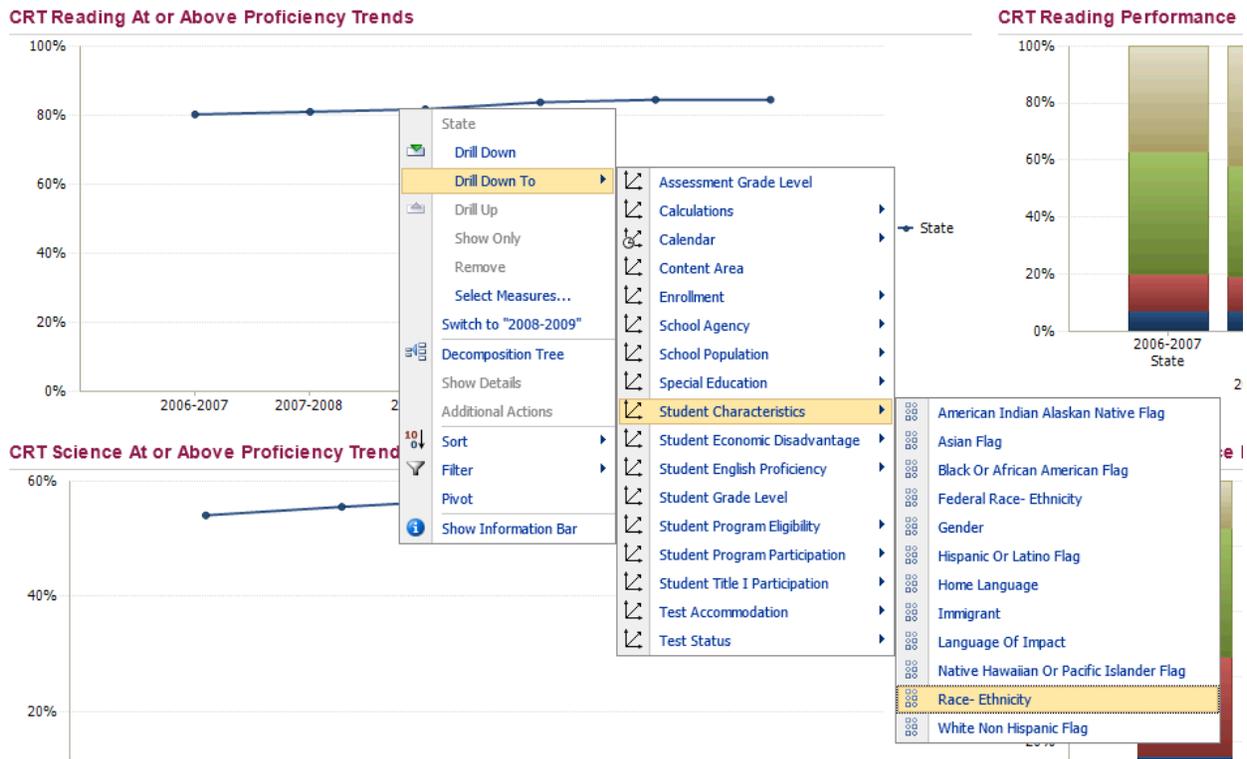
Display a list of districts that had 50% or greater American Indian students at or above proficient in Reading in a particular school year, showing the percent of American Indians students proficient for each year.

Select I am interested in:

Select Student Achievement Dashboard

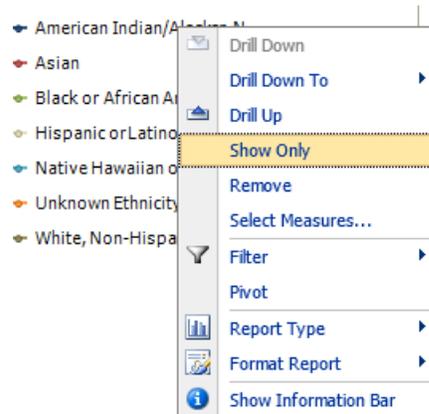
Find the CRT Reading At or Above Proficiency Trends Chart

Right click on the line in the chart and drill down to Race-Ethnicity

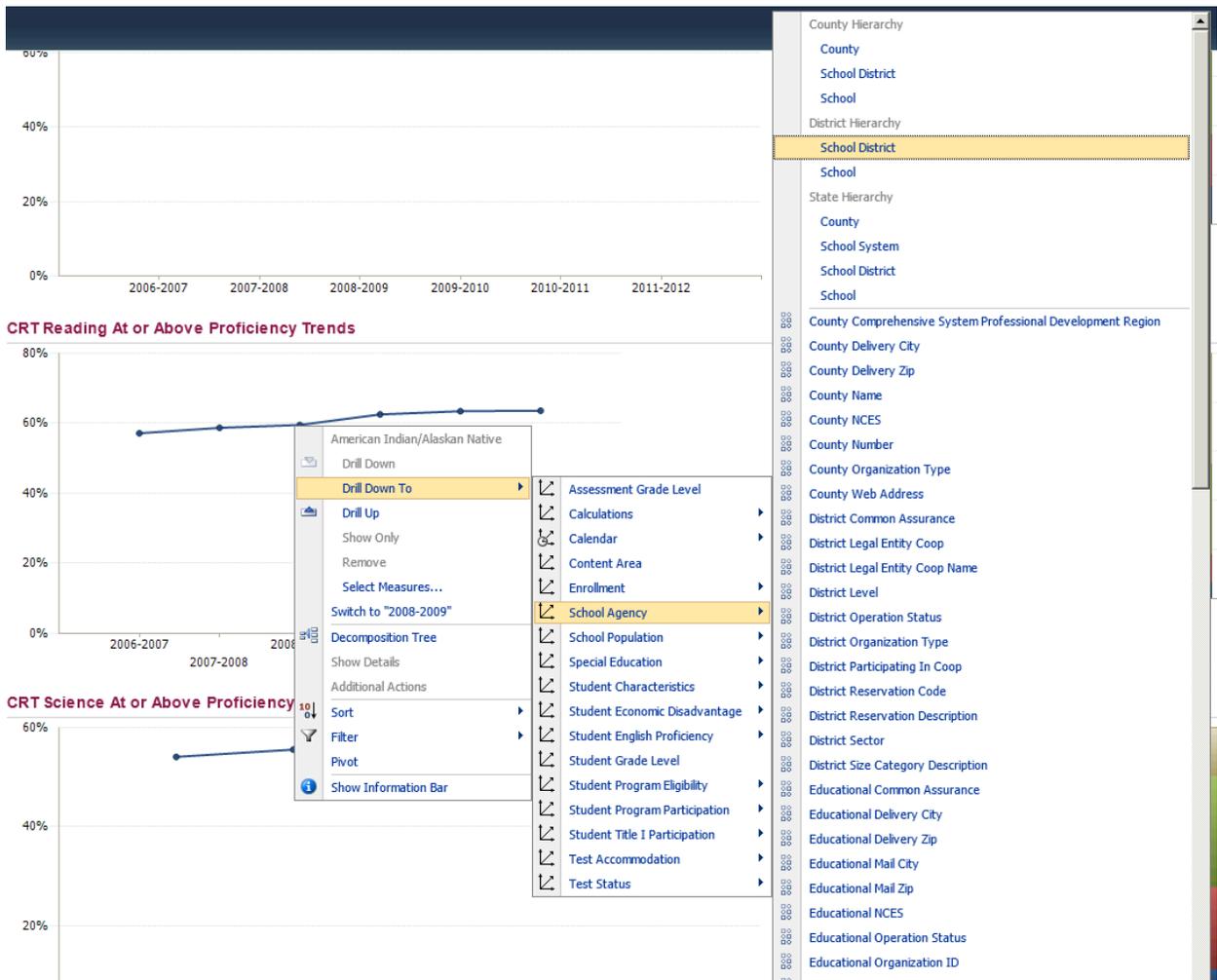


Right click on American Indian/Alaskan Native in the legend

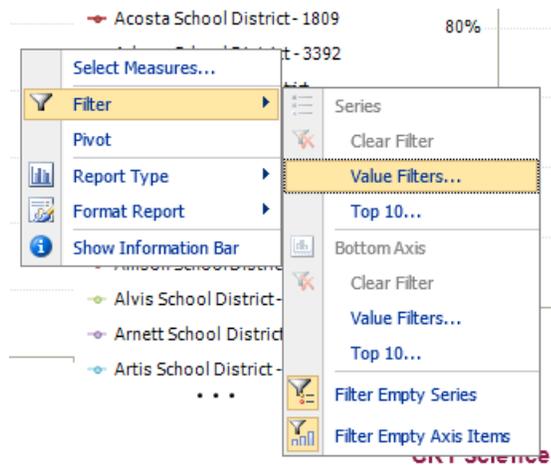
Click Show Only



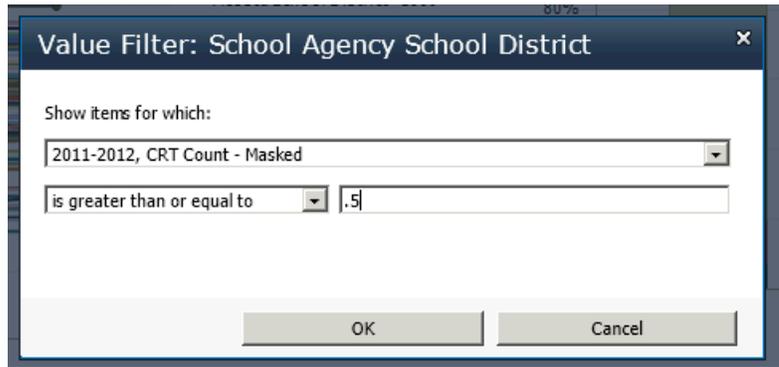
Right click on the line in the chart and drill down to School District



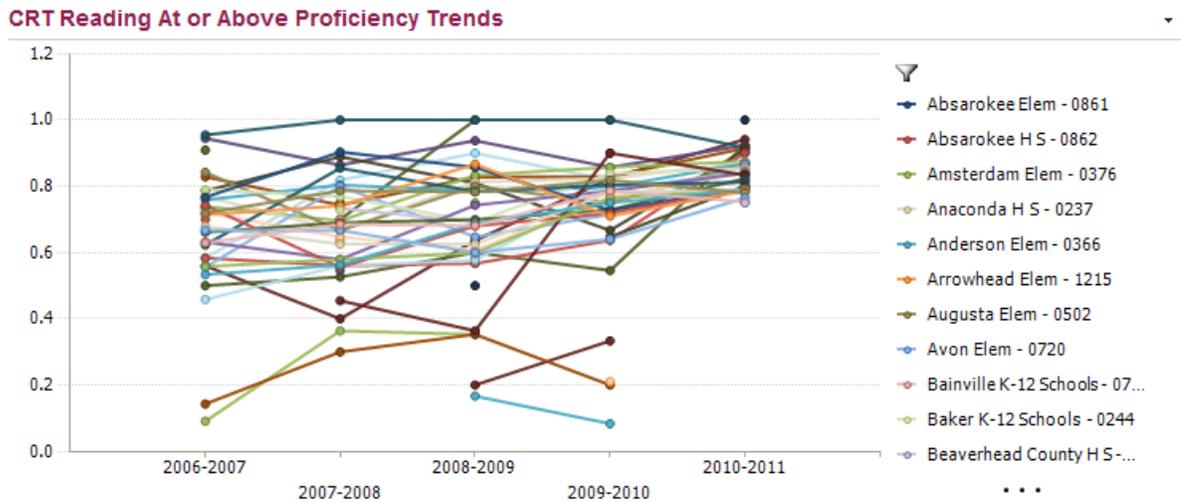
Right click on some white space in the chart
 Select Filter → Series → Value Filters...



Select is greater than or equal to
 Enter in .5 for the value
 Click OK (NOTE: you are targeting a specific year in this filter per the top drop down)



Result (switching to a grid or bar chart view may be a better visual for this scenario):



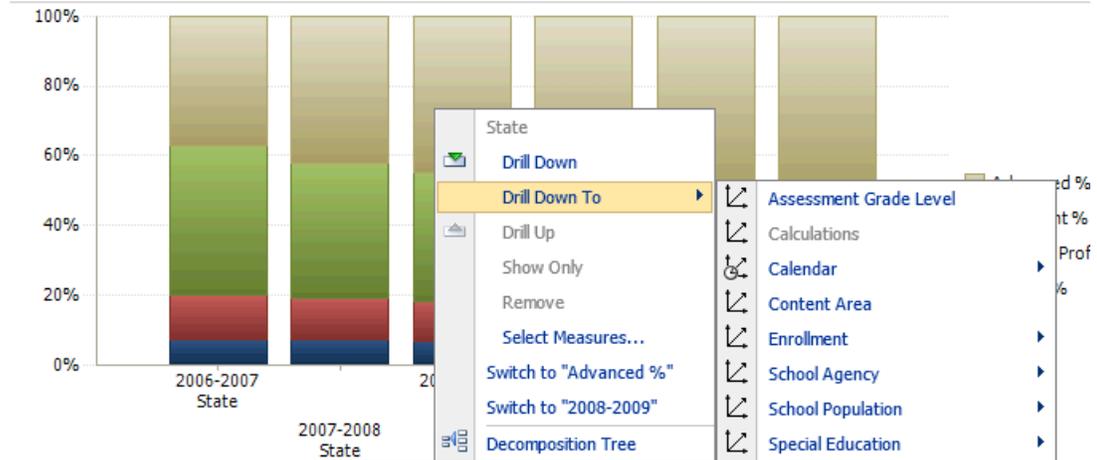
**Scenario 6 (GEMS Secured or GEMS Training):
Display American Indian proficiency by dropout status over a four year period.**

- Select I am interested in:
- Select Student Achievement Dashboard
- Find the CRT Reading Performance Level Trends chart
- Right click on a bar in the chart
- Click Switch to "State"



Select Drill Down To → Student Characteristics → Race - Ethnicity

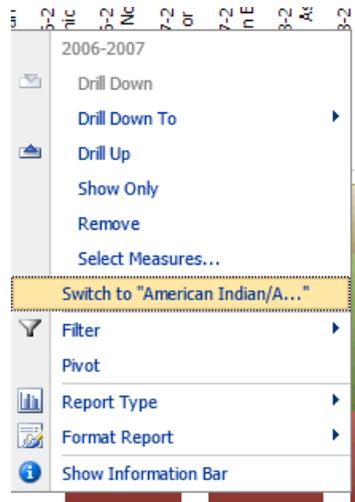
CRT Reading Performance Level Trends



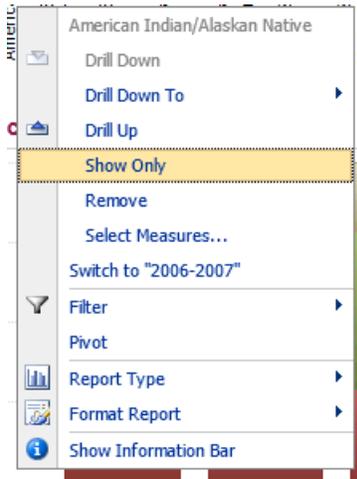
CRT Science Performance Level Trends



Right click on a bar in the graph that has American Indian
Click Switch to "American Indian/A..."

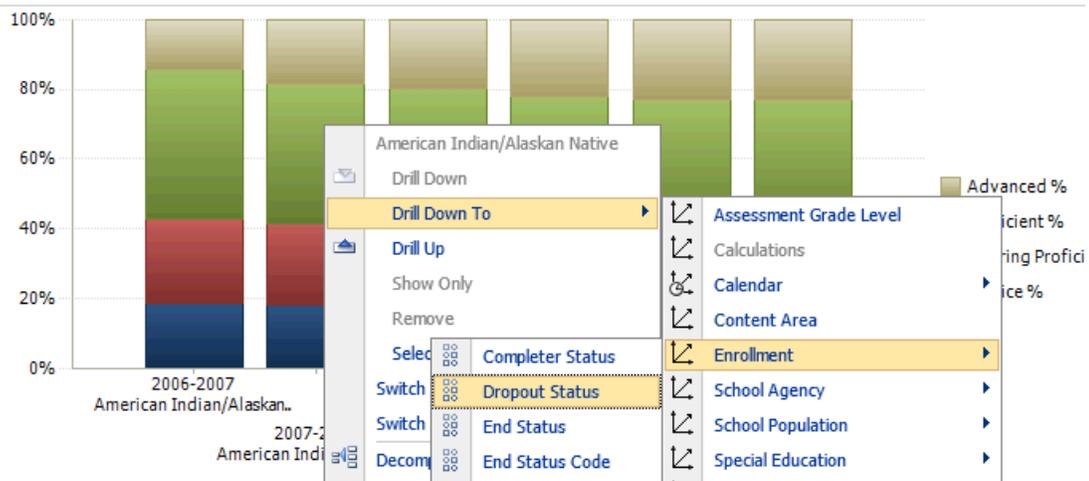


Click Show Only

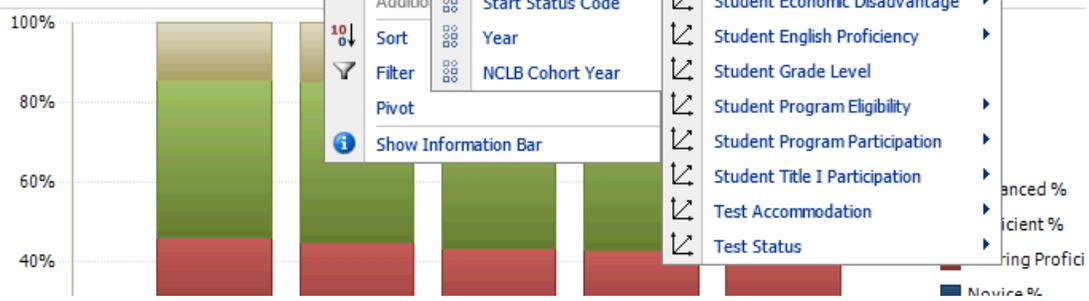


Right click on a bar in the chart
 Click Switch to “American Indian/A...”
 Drill Down to Dropout Status

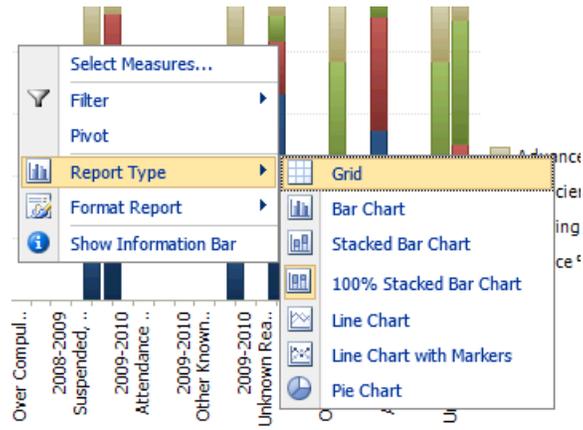
CRT Reading Performance Level Trends



CRT Science Performance Level



Right click on some white space in the chart
 Click Report Type → Grid



Right click on a cell in the table
Click Pivot

CRT Reading Performance Level Trends

2006-2007				
Calculat	Attendance D...	Expelled	GED	
Novice	50.00%	*		
Nearing	8.33%			
Proficie	33.33%			
Advanc	8.33%			

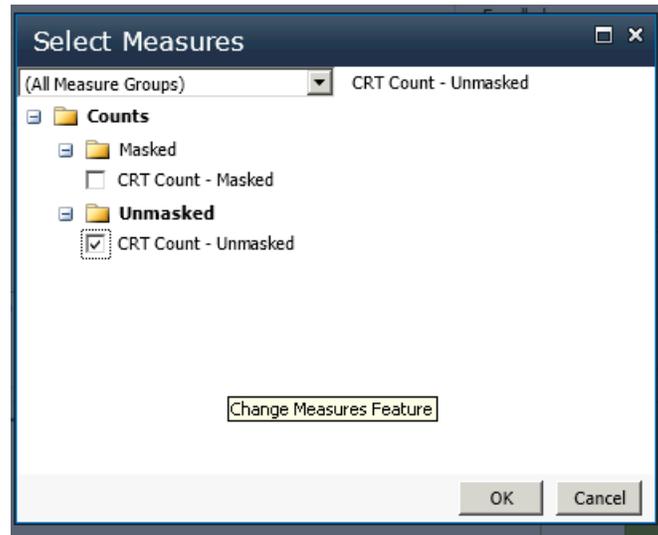
Right click on the 06-07 and 07-08 school years to remove them

Calendar Formatted S...	Novice %	Nearing
2006-2007		
Academic		
Attendan		
Expelled		
GED (Purs		
Unknown		2
Unknown		3
2007-2008		
Attendan		3
Economic		
Expelled		
GED (Purs		
1th Corne		

Right click on the table
Click Select Measures



Remove the CRT Count – Masked measure, and select the unmasked measure instead.
Click OK



Use the web part menu Export to Excel

CRT Reading Performance Level Trends

Calendar Formatted S...	Novice %	Nearing Prof...	Proficient %	Advanced %
2008-2009				
Academic Difficulty			100.00%	
Attendance Difficulty	55.56%	22.22%	16.67%	5.56%
Expelled	50.00%	50.00%		
GED (Pursuing)	100.00%			
Other Known Reason	100.00%			
Over Compulsory Age		100.00%		
Poor Personal Relati...		100.00%		
Pregnancy		100.00%		
Suspended, Did Not R...			100.00%	
Unknown Dropout Stat...	16.43%	23.85%	40.08%	19.64%
Unknown Reason	69.23%	23.08%		7.69%
2009-2010				



Result:

OPI Contractor Desktop - Citrix online plug-in

CRT Reading

File Home Insert Page Layout Formulas Data Review View PowerPivot Team

Clipboard Font Alignment Number

	A	B	C	D	E
1	View:	CRT Reading Performance Level Trends			
2	Date:	7/13/2012			
3	Dashboard:	MontCAS (CRT)			
4	Parameter:	State			
5					
6	Calendar Formatted School Year, Enrollment Dropout Status	Novice %	Nearing Proficiency %	Proficient %	Advanced %
7	2008-2009				
8	Academic Difficulty			100.00%	
9	Attendance Difficulty	55.56%	22.22%	16.67%	5.56%
10	Expelled	50.00%	50.00%		
11	GED (Pursuing)	100.00%			
12	Other Known Reason	100.00%			
13	Over Compulsory Age		100.00%		
14	Poor Personal Relationships		100.00%		
15	Pregnancy		100.00%		
16	Suspended, Did Not Return			100.00%	
17	Unknown Dropout Status	16.43%	23.85%	40.08%	19.64%
18	Unknown Reason	69.23%	23.08%		7.69%
19	2009-2010				
20	Attendance Difficulty	75.00%	12.50%	12.50%	

Other Scenarios to try:

Scenario 7 (GEMS Secured or GEMS Training):

Display American Indian proficiency by dropout status for selected schools over a four year period, disaggregated by grade level.

Scenario 8 (GEMS Secured or GEMS Training):

Display dropout proficiency for the largest 7 high school districts in Montana, ordered by dropout proficiency from lowest to highest.

Scenario 9 (GEMS Secured or GEMS Training):

Display 5 years of CRT scores for a specific system and its related districts and schools.

Scenario 10 (GEMS Public):

Display the schools with 200 or more students proficient and greater than 50% low income students that are below proficient.