

## Matched Comparison Analysis

Matched comparison analysis compares the performance of students over two years. The students included in the matched comparison group are those who took an assessment in one year and the next year took an assessment at the next higher grade level. For example, a student who took the reading assessment in 4<sup>th</sup> grade in 2011 is only included if the same student took the 3<sup>rd</sup> grade reading assessment in 2010. In the analysis of performance for reading 2011 relative to 2010 a total of 60,109 students are matched and therefore compared. Alaska tests students in grades 3-10.

To read the matched comparison charts find a performance level for year one on the left side of the chart and year two at the top of the chart. Find where the row and column intersect and the number represented in the cell indicates the performance of a group of students in one year relative to the next year. For example, by looking at the proficient row of reading in 2010 relative to the advanced column of reading in 2011 we learn that 4,008 or 6.67% of all matched students (60,109) increased performance from proficient to advanced between 2010 and 2011.

The charts are color coded to indicate performance changes. Yellow indicates cells that represent student performance are the same one year relative to the prior year. Those cells that are colored green represent students where performance increased over the prior year, and cells that are orange/tan indicate student performance declined in the current year relative to the prior year. When the values of all green cells are combined from the 2010 to 2011 matched comparison the total equals 7,219, indicating 12 percent of the total students who took the Reading test in both years improved performance.

A table representing the number and percentage of students demonstrating growth, declines or stable performance from one year to the next is presented at the bottom of each content area analysis. The number and percent represented in the table for stable performance includes two categories, one for those students who are stable and proficient or advanced and one for those who are below or far below proficient.

The matched comparison analysis includes 2011 relative to 2010 performance, 2010 relative to 2009 performance, and 2009 relative to 2008 performance. The charts are presented over six pages that outline the reading, writing and mathematics assessments in two sets of consecutive year analyses.

## Matched Comparison between 2010 to 2011 and 2009 to 2010

Matched Reading Counts		2011				
		Far Below Proficient	Below Proficient	Proficient	Advanced	Total
2010	Far Below Proficient	1,355	1,066	216	5	2,642
	Below Proficient	1,818	3,938	1,896	28	7,680
	Proficient	524	4,223	18,455	4,008	27,210
	Advanced	9	104	5,994	16,470	22,577
	Total	3,706	9,331	26,561	20,511	60,109
Matched Reading Percents		2011				
		Far Below Proficient	Below Proficient	Proficient	Advanced	Total
2010	Far Below Proficient	2.25%	1.77%	0.36%	0.01%	4.40%
	Below Proficient	3.02%	6.55%	3.15%	0.05%	12.78%
	Proficient	0.87%	7.03%	30.70%	6.67%	45.27%
	Advanced	0.01%	0.17%	9.97%	27.40%	37.56%
	Total	6.17%	15.52%	44.19%	34.12%	100.00%
Matched Reading Counts		2010				
		Far Below Proficient	Below Proficient	Proficient	Advanced	Total
2009	Far Below Proficient	1,349	1,841	496	15	3,701
	Below Proficient	852	3,872	3,529	72	8,325
	Proficient	173	2,247	19,514	5,732	27,666
	Advanced	5	30	4,222	15,698	19,955
	Total	2,379	7,990	27,761	21,517	59,647
Matched Reading Percents		2010				
		Far Below Proficient	Below Proficient	Proficient	Advanced	Total
2009	Far Below Proficient	2.26%	3.09%	0.83%	0.03%	6.20%
	Below Proficient	1.43%	6.49%	5.92%	0.12%	13.96%
	Proficient	0.29%	3.77%	32.72%	9.61%	46.38%
	Advanced	0.01%	0.05%	7.08%	26.32%	33.46%
	Total	3.99%	13.40%	46.54%	36.07%	100.00%

	2010 to 2011		2009 to 2010	
Performance Increase	7,219	12.0%	11,685	19.6%
Prof/Adv Stable	34,925	58.1%	35,212	59.0%
FBP/BP Stable	5,293	8.8%	5,221	8.8%
Performance Decline	12,672	21.1%	7,529	12.6%

\*Color Key  
 Yellow = Stable      Green = increases      Orange/Tan = decline

Matched comparison includes students who tested in the first year and then tested in the following year in the next grades 3-4, 4-5, 5-6, 6-7, 7-8, 8-9, 9-10

## Matched Comparison between 2010 to 2011 and 2009 to 2010

Matched Writing Counts		2011				
		Far Below Proficient	Below Proficient	Proficient	Advanced	Total
2010	Far Below Proficient	1,041	1,287	216	1	2,545
	Below Proficient	1,319	7,417	3,670	40	12,446
	Proficient	172	3,868	24,849	2,681	31,570
	Advanced	2	73	4,999	8,403	13,477
	Total	2,534	12,645	33,734	11,125	60,038

  

Matched Writing Percents		2011				
		Far Below Proficient	Below Proficient	Proficient	Advanced	Total
2010	Far Below Proficient	1.73%	2.14%	0.36%	0.00%	4.24%
	Below Proficient	2.20%	12.35%	6.11%	0.07%	20.73%
	Proficient	0.29%	6.44%	41.39%	4.47%	52.58%
	Advanced	0.00%	0.12%	8.33%	14.00%	22.45%
	Total	4.22%	21.06%	56.19%	18.53%	100.00%

  

Matched Writing Counts		2010				
		Far Below Proficient	Below Proficient	Proficient	Advanced	Total
2009	Far Below Proficient	990	954	140	2	2,086
	Below Proficient	1,568	6,996	3,193	40	11,797
	Proficient	240	4,244	25,707	3,145	33,336
	Advanced	2	53	4,677	7,631	12,363
	Total	2,800	12,247	33,717	10,818	59,582

  

Matched Writing Percents		2010				
		Far Below Proficient	Below Proficient	Proficient	Advanced	Total
2009	Far Below Proficient	1.66%	1.60%	0.23%	0.00%	3.50%
	Below Proficient	2.63%	11.74%	5.36%	0.07%	19.80%
	Proficient	0.40%	7.12%	43.15%	5.28%	55.95%
	Advanced	0.00%	0.09%	7.85%	12.81%	20.75%
	Total	4.70%	20.55%	56.59%	18.16%	100.00%

	2010 to 2011		2009 to 2010	
Performance Increase	7,895	13.2%	7,474	12.5%
Prof/Adv Stable	33,252	55.4%	33,338	56.0%
FBP/BP Stable	8,458	14.1%	7,986	13.4%
Performance Decline	10,433	17.4%	10,784	18.1%

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Matched comparison includes students who tested in the first year and then tested in the following year in the next grades 3-4, 4-5, 5-6, 6-7, 7-8, 8-9, 9-10

## Matched Comparison between 2010 to 2011 and 2009 to 2010

Matched Mathematics Counts						
		2011				
		Far Below Proficient	Below Proficient	Proficient	Advanced	Total
2010	Far Below Proficient	4,872	1,435	387	21	6,715
	Below Proficient	2,803	3,906	2,303	79	9,091
	Proficient	988	4,526	13,837	3,379	22,730
	Advanced	55	250	5,550	15,582	21,437
	Total	8,718	10,117	22,077	19,061	59,973
Matched Mathematics Percents						
		2011				
		Far Below Proficient	Below Proficient	Proficient	Advanced	Total
2010	Far Below Proficient	8.12%	2.39%	0.65%	0.04%	11.20%
	Below Proficient	4.67%	6.51%	3.84%	0.13%	15.16%
	Proficient	1.65%	7.55%	23.07%	5.63%	37.90%
	Advanced	0.09%	0.42%	9.25%	25.98%	35.74%
	Total	14.54%	16.87%	36.81%	31.78%	100.00%
Matched Mathematics Counts						
		2010				
		Far Below Proficient	Below Proficient	Proficient	Advanced	Total
2009	Far Below Proficient	4,876	2,578	828	24	8,306
	Below Proficient	1,734	4,159	3,511	163	9,567
	Proficient	545	3,198	14,486	4,723	22,952
	Advanced	23	129	3,848	14,732	18,732
	Total	7,178	10,064	22,673	19,642	59,577
Matched Mathematics Percents						
		2010				
		Far Below Proficient	Below Proficient	Proficient	Advanced	Total
2009	Far Below Proficient	8.19%	4.33%	1.39%	0.04%	13.95%
	Below Proficient	2.91%	6.98%	5.90%	0.27%	16.06%
	Proficient	0.92%	5.37%	24.32%	7.93%	38.54%
	Advanced	0.04%	0.22%	6.46%	24.74%	31.45%
	Total	12.05%	16.90%	38.07%	32.98%	100.00%

	2010 to 2011		2009 to 2010	
Performance Increase	7,604	12.7%	11,827	19.9%
Prof/Adv Stable	29,419	49.1%	29,218	49.1%
FBP/BP Stable	8,778	14.6%	9,035	15.2%
Performance Decline	14,172	23.6%	9,477	15.9%

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## Matched Comparison between 2009 to 2010 and 2008 to 2009

Matched Reading Counts		2010				
		Far Below Proficient	Below Proficient	Proficient	Advanced	Total
2009	Far Below Proficient	1,349	1,841	496	15	3,701
	Below Proficient	852	3,872	3,529	72	8,325
	Proficient	173	2,247	19,514	5,732	27,666
	Advanced	5	30	4,222	15,698	19,955
	Total	2,379	7,990	27,761	21,517	59,647
Matched Reading Percents		2010				
		Far Below Proficient	Below Proficient	Proficient	Advanced	Total
2009	Far Below Proficient	2.26%	3.09%	0.83%	0.03%	6.20%
	Below Proficient	1.43%	6.49%	5.92%	0.12%	13.96%
	Proficient	0.29%	3.77%	32.72%	9.61%	46.38%
	Advanced	0.01%	0.05%	7.08%	26.32%	33.46%
	Total	3.99%	13.40%	46.54%	36.07%	100.00%
Matched Reading Counts		2009				
		Far Below Proficient	Below Proficient	Proficient	Advanced	Total
2008	Far Below Proficient	1,285	1,055	264	6	2,610
	Below Proficient	1,355	3,994	2,225	40	7,614
	Proficient	356	3,537	19,422	3,558	26,873
	Advanced	11	56	5,991	15,933	21,991
	Total	3,007	8,642	27,902	19,537	59,088
Matched Reading Percents		2009				
		Far Below Proficient	Below Proficient	Proficient	Advanced	Total
2008	Far Below Proficient	2.17%	1.79%	0.45%	0.01%	4.42%
	Below Proficient	2.29%	6.76%	3.77%	0.07%	12.89%
	Proficient	0.60%	5.99%	32.87%	6.02%	45.48%
	Advanced	0.02%	0.09%	10.14%	26.96%	37.22%
	Total	5.09%	14.63%	47.22%	33.06%	100.00%

	2009 to 2010		2008 to 2009	
Performance Increase	11,685	19.6%	7,148	12.1%
Prof/Adv Stable	35,212	59.0%	35,355	59.8%
FBP/BP Stable	5,221	8.8%	5,279	8.9%
Performance Decline	7,529	12.6%	11,306	19.1%

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Matched comparison includes students who tested in the first year and then tested in the following year in the next grades 3-4, 4-5, 5-6, 6-7, 7-8, 8-9, 9-10

## Matched Comparison between 2009 to 2010 and 2008 to 2009

Matched Writing Counts		2010				
		Far Below Proficient	Below Proficient	Proficient	Advanced	Total
2009	Far Below Proficient	990	954	140	2	2,086
	Below Proficient	1,568	6,996	3,193	40	11,797
	Proficient	240	4,244	25,707	3,145	33,336
	Advanced	2	53	4,677	7,631	12,363
	Total	2,800	12,247	33,717	10,818	59,582
Matched Writing Percents		2010				
		Far Below Proficient	Below Proficient	Proficient	Advanced	Total
2009	Far Below Proficient	1.66%	1.60%	0.23%	0.00%	3.50%
	Below Proficient	2.63%	11.74%	5.36%	0.07%	19.80%
	Proficient	0.40%	7.12%	43.15%	5.28%	55.95%
	Advanced	0.00%	0.09%	7.85%	12.81%	20.75%
	Total	4.70%	20.55%	56.59%	18.16%	100.00%
Matched Writing Counts		2009				
		Far Below Proficient	Below Proficient	Proficient	Advanced	Total
2008	Far Below Proficient	989	1,305	251	2	2,547
	Below Proficient	1,163	6,903	4,341	43	12,450
	Proficient	152	3,175	25,631	2,305	31,263
	Advanced	5	58	5,185	7,588	12,836
	Total	2,309	11,441	35,408	9,938	59,096
Matched Writing Percents		2009				
		Far Below Proficient	Below Proficient	Proficient	Advanced	Total
2008	Far Below Proficient	1.67%	2.21%	0.42%	0.00%	4.31%
	Below Proficient	1.97%	11.68%	7.35%	0.07%	21.07%
	Proficient	0.26%	5.37%	43.37%	3.90%	52.90%
	Advanced	0.01%	0.10%	8.77%	12.84%	21.72%
	Total	3.91%	19.36%	59.92%	16.82%	100.00%

	2009 to 2010		2008 to 2009	
Performance Increase	7,474	12.5%	8,247	14.0%
Prof/Adv Stable	33,338	56.0%	33,219	56.2%
FBP/BP Stable	7,986	13.4%	7,892	13.4%
Performance Decline	10,784	18.1%	9,738	16.5%

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## Matched Comparison between 2009 to 2010 and 2008 to 2009

Matched Mathematics Counts						
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		Far Below Proficient	Below Proficient	Proficient	Advanced	Total
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	Below Proficient	1,734	4,159	3,511	163	9,567
	Proficient	545	3,198	14,486	4,723	22,952
	Advanced	23	129	3,848	14,732	18,732
	Total	7,178	10,064	22,673	19,642	59,577
Matched Mathematics Percents						
		2010				
		Far Below Proficient	Below Proficient	Proficient	Advanced	Total
2009	Far Below Proficient	8.19%	4.33%	1.39%	0.04%	13.95%
	Below Proficient	2.91%	6.98%	5.90%	0.27%	16.06%
	Proficient	0.92%	5.37%	24.32%	7.93%	38.54%
	Advanced	0.04%	0.22%	6.46%	24.74%	31.45%
	Total	12.05%	16.90%	38.07%	32.98%	100.00%
Matched Mathematics Counts						
		2009				
		Far Below Proficient	Below Proficient	Proficient	Advanced	Total
2008	Far Below Proficient	4,644	1,610	439	22	6,715
	Below Proficient	2,612	4,109	2,508	69	9,298
	Proficient	1,008	4,370	14,514	3,107	22,999
	Advanced	51	205	5,797	13,973	20,026
	Total	8,315	10,294	23,258	17,171	59,038
Matched Mathematics Percents						
		2009				
		Far Below Proficient	Below Proficient	Proficient	Advanced	Total
2008	Far Below Proficient	7.87%	2.73%	0.74%	0.04%	11.37%
	Below Proficient	4.42%	6.96%	4.25%	0.12%	15.75%
	Proficient	1.71%	7.40%	24.58%	5.26%	38.96%
	Advanced	0.09%	0.35%	9.82%	23.67%	33.92%
	Total	14.08%	17.44%	39.39%	29.08%	100.00%

	2009 to 2010		2008 to 2009	
Performance Increase	11,827	19.9%	7,755	13.1%
Prof/Adv Stable	29,218	49.1%	28,487	48.3%
FBP/BP Stable	9,035	15.2%	8,753	14.8%
Performance Decline	9,477	15.9%	14,043	23.8%

\*Color Key  
 Yellow = Stable      Green = increases      Orange/Tan = decline

Matched comparison includes students who tested in the first year and then tested in the following year in the next grades 3-4, 4-5, 5-6, 6-7, 7-8, 8-9, 9-10