



## Student Results

2016-17 Provincial Achievement Tests and  
Diploma Examinations

learning | as unique | as every student



Today, we are pleased to share the results of our diploma examination and provincial achievement tests. Our results show that our students continue to do very well.

These exams are designed to show how students across Alberta perform on the same tests. With this in mind, the focus of the information in today's presentation will compare CBE results to the overall provincial results. We will also be sharing our updated Accountability Pillar, which is another way of showing our student success.

## Purpose of Provincial Assessment

- Provincial standardized tests are a source of information used to measure student achievement.
- Their purpose is to:
  - determine if students are learning what they are expected to learn;
  - report to Albertans how well students have achieved provincial standards at given points in their schooling; and
  - assist schools, jurisdictions, and the province in monitoring and improving student learning.

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We always like to remind ourselves of the purpose of the Provincial Assessment Program as you see in the slide.

The province states that the purpose of the Provincial Assessment is:

- To determine whether students are learning what they are expected to learn.
- To report to Albertans how well students have achieved provincial standards.
- To assist schools, authorities, and the province in monitoring and improving student learning.

It is important to remember that the results from provincial assessments are one of many sources used to measure student achievement. Student achievement is also determined day by day by our teachers as they observe student learning over time and in multiple ways. While our focus today is on academic achievement, we consider the overall success of students, which includes the ways they demonstrate citizenship, personal development and character. We are proud to offer our students an education which will develop well-rounded, contributing members of society.

## CBE Highlights

- Grade 6 results continue a long term pattern of being above the provincial results at the Acceptable Standard.
- Achieving the Standard of Excellence
  - Biology 30
  - Chemistry 30
  - Physics 30 Excellence

} 40% of students  
→ 51% of students achieved the Standard of Excellence
- Mathematics 30-1 Acceptable Standard and the Standard of Excellence

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Each year when we review our results, as always, there are achievements that are noteworthy and areas on which to focus. These tables provide you with a high level overview of both.

The provincial standards fall into two categories: Acceptable Standard and the Standard of Excellence. With respect to the Diploma Examination standards, the Acceptable Standard is a mark of 50% or higher and the Standard of Excellence is a mark of 80% or higher. For Provincial Achievement Tests, the exact scores for each standard vary from year to year, but are close to 50% and 80%.

We are proud of our Grade 6 student results.

- On the ELA and science 6 PATs our students have achieved above the provincial results at the Acceptable Standard for the past 10 years.
- On the Mathematics and Social Studies 6 PATs, our students have achieved above the provincial results at the Acceptable Standard for 7 years or more.
- The result on the Social Studies 6 PAT is the highest result in 5 years.
- The result on the Science 6 PAT at the Standard of Excellence is the

highest result in 5 years.

On the science Diploma Examinations at the Standard of Excellence, more than 40% of our students writing the Biology 30 and Chemistry 30 diploma exams have achieved the Standard of Excellence for 5 years in a row. In Physics 30, more than 40% of CBE students have achieved the Standard of Excellence for 6 straight years. This year, they reached a new high with 51% achieving the Standard of Excellence. This is impressive!

Other notable achievements include:

- Chemistry 30: Standard of Excellence highest result in 9 years.
- Physics 30: Acceptable Standard and Standard of Excellence highest results in 9 years.
- Science 30 Standard of Excellence highest result in 9 years.
- Science 9: Acceptable Standard highest result in 6 years.
- Science 9: Standard of Excellence highest result in 5 years.

In Mathematics 30-1 at the Acceptable Standard, our students results were 4.6 percentage points higher than the provincial results. At the Standard of Excellence they were a very strong 7.7 percentage points higher than the provincial results. In addition, there has been a year over year increase of 1.7 percentage points at the Acceptable Standard and a 4.5 percentage point increase at the Standard of Excellence.

## Grade 6 Provincial Achievement Tests

Subject (Acceptable Standard)	CBE Result (%)	Provincial Result (%)
English Language Arts	86.0	82.5
French Language Arts	91.3	85.1
Mathematics	73.7	69.4
Science	79.4	76.9
Social Studies	76.6	72.9

Subject (Standard of Excellence)	CBE Result (%)	Provincial Result (%)
English Language Arts	20.5	18.9
French Language Arts	13.5	13.5
Mathematics	14.3	12.6
Science	29.1	29.0
Social Studies	23.3	21.7

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I would like to share our students results on the Grade 6 Provincial Achievement Test results as compared to the provincial results. The percentage in the table represents the percentage of students meeting either the Acceptable Standard or the Standard of Excellence. The students meeting the Standard of Excellence are also captured in the Acceptable Standard.

As required by Alberta Education, these results are for all students enrolled which includes students who wrote the test as well as those who were absent or excused. Our participation rate on the PATs is also high because we encourage all students regardless of ability to write these tests. Further, participation rates in the CBE are higher than the provincial rates on all grade 6 tests.

Over 8200 students in the Calgary Board of Education wrote these tests last year and as you can see, our results continue to be strong at both the Acceptable Standard and the Standard of Excellence. In fact, our student results were equal to or higher than the provincial results for each of the five tests at each of the two standards.

## Grade 9 Provincial Achievement Tests

Subject (Acceptable Standard)	CBE Result (%)	Provincial Result (%)
English Language Arts	76.2	76.8
French Language Arts	86.2	83.1
Mathematics	65.8	67.2
Science	76.2	74.0
Social Studies	67.0	67.0

Subject (Standard of Excellence)	CBE Result (%)	Provincial Result (%)
English Language Arts	14.8	14.9
French Language Arts	13.5	11.2
Mathematics	19.8	19.0
Science	24.4	21.4
Social Studies	20.4	20.2

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Moving on to the Grade 9 results for all students enrolled. These results represent the achievement of over 7500 students.

At the Acceptable Standard our student results are equal to or above the provincial results on three of five tests. At the Standard of Excellence we are above the provincial results on four of the five tests.

Participation rates in the CBE are higher than the provincial rates on all grade 9 tests.

While we are 4.3 percentage points above the provincial results in Mathematics at Grade 6, our Grade 9 result shows a point from which we can improve. Our Mathematics Strategy is designed to support student success in mathematics from kindergarten through Grade 12 we will go into more detail on this in the coming slides.

On a positive note, the percentage of students at the Standard of Excellence in Mathematics within the CBE at the Grade 9 level surpasses that of the province.

## Grade 12 Diploma Examinations (Acceptable Standard)

Subject (Acceptable Standard)	CBE Result (%)	Provincial Result (%)
Biology 30	86.7	84.2
Chemistry 30	86.5	83.1
English Language Arts 30-1	86.4	86.5
English Language Arts 30-2	88.1	89.5
French Language Arts 30-1	96.2	94.7
Mathematics 30-1	77.7	73.1
Mathematics 30-2	76.0	74.7
Physics 30	89.1	85.7
Science 30	83.6	84.9
Social Studies 30-1	88.8	86.0
Social Studies 30-2	84.7	80.6

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We are exceptionally proud of our students' achievement on the Grade 12 Diploma Examinations.

As you can see, at the Acceptable Standard, the CBE results were above provincial results in all but three of the Diploma Examinations.

In 2016-17, there was an increase in the number of students achieving the Acceptable Standard in Chemistry 30, French Language Arts 30-1, Physics 30 and Social Studies 30-1.

In the chart above you will see the Mathematics 30-1 result is 4.6 percentage points above the provincial result and Mathematics 30-2 where we are 1.3 percentage points above the provincial result.

## Grade 12 Diploma Examinations (Standard of Excellence)

Subject (Standard of Excellence)	CBE Result (%)	Provincial Result (%)
Biology 30	40.3	32.3
Chemistry 30	47.5	38.6
English Language Arts 30-1	14.6	11.7
English Language Arts 30-2	13.0	11.4
French Language Arts 30-1	12.4	9.4
Mathematics 30-1	38.4	30.7
Mathematics 30-2	17.3	15.9
Physics 30	51.0	41.8
Science 30	27.2	28.4
Social Studies 30-1	20.0	14.8
Social Studies 30-2	20.3	12.6

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Our student results at the Standard of Excellence continue to be outstanding. The CBE results were above the provincial results in 10 of the 11 diploma examinations.

In 2016-17, there was an increase in the number of students achieving the Standard of Excellence in Chemistry 30, English Language Arts 30-1, French Language Arts 30-1, Mathematics 30-1, Science 30 and Social Studies 30-1.

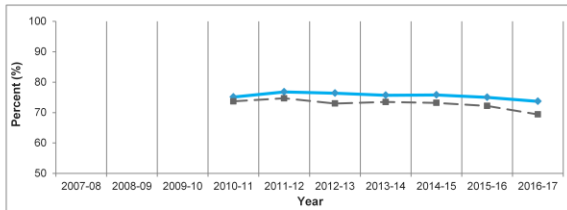
I would like to draw your attention to our Physics 30 result where more than half of the students achieved the Standard of Excellence.



## Mathematics' Acceptable Standard Results Over Time

### Grade 6 Mathematics Results

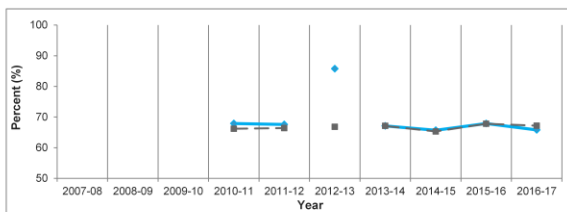
All Students Enrolled (Cohort)



◆ CBE results  
■ Provincial results

### Grade 9 Mathematics Results

All Students Enrolled (Cohort)



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While we are pleased to note improvements in some of the standards for the mathematics provincial assessments, it is an area of continued focus as we implement our K-12 Mathematics strategy this year.

These graphs illustrate the Provincial Achievement Tests results in Mathematics at the Acceptable Standard since the implementation of the new Mathematics Program of Studies.

During the implementation of a new Program of Study teachers and students are familiarizing themselves with the standards. Although we surpass the province at the Grade 6 level and the Standard of Excellence in Grade 9, a few years after implementation we would expect to see an increase in results. Therefore we have made it an area of focus.

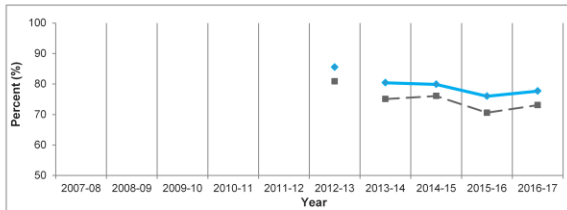
We are excited about the implementation of the math strategy that includes the addition of classroom learning coaches with expertise in Mathematics in more than 40 schools. They will directly support student success and teacher professional learning.

We also have many schools including mathematics as a focus in their school development plan.

## Mathematics' Acceptable Standard Results Over Time

### Mathematics 30-1 Results

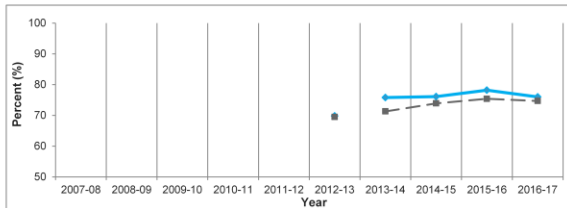
Writers



◆ CBE results  
■ Provincial results

### Mathematics 30-2 Results

Writers



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These graphs illustrate the Diploma Examination results in Mathematics at the Acceptable Standard since the implementation of the new Mathematics Program of Studies.

We are pleased to highlight that we are above the province at each of these standards.

Caution should be used when interpreting evaluations and results over time for Mathematics 30-1/30-2, as equating was not in place until the 2016-17 school year. Alberta Education does not comment on province wide trends until it has five years of **equated** examination data.

## Accountability Pillar Highlights

Measure Category	Measure	Calgary School District No. 19			Alberta			Measure Evaluation		
		Current Result	Prev Year Result	Prev 3 Year Average	Current Result	Prev Year Result	Prev 3 Year Average	Achievement	Improvement	Overall
Safe and Caring Schools	<a href="#">Safe and Caring</a>	89.3	89.8	89.0	89.5	89.5	89.3	Very High	Improved	Excellent
	<a href="#">Programs of Studies</a>	82.4	83.2	82.5	81.9	81.9	81.5	Very High	Maintained	Excellent
Student Learning Opportunities	<a href="#">Education Quality</a>	89.8	89.4	88.3	90.1	90.1	89.6	High	Improved Significantly	Good
	<a href="#">Drop Out Rate</a>	2.7	2.8	3.1	3.0	3.2	3.3	Very High	Improved Significantly	Excellent
	<a href="#">High School Completion Rate (3 yrs)</a>	76.4	75.2	75.4	77.9	76.5	76.1	High	Improved	Good
Student Learning Achievement (Grades K-9)	<a href="#">PAT - Acceptable</a>	75.3	75.5	74.9	73.4	73.6	73.2	Intermediate	Maintained	Acceptable
	<a href="#">PAT - Excellence</a>	26.6	20.4	19.8	19.5	19.4	18.8	High	Improved	Good
Student Learning Achievement (Grades 10-12)	<a href="#">Diploma - Acceptable</a>	85.0	85.1	85.0	83.0	82.7	83.1	High	Declined Significantly	Issue
	<a href="#">Diploma - Excellence</a>	28.6	27.6	28.6	22.2	21.2	21.5	Very High	Maintained	Excellent
	<a href="#">Diploma Exam Participation Rate (4+ Exams)</a>	61.9	61.0	60.9	54.9	54.6	53.1	High	Improved	Good
	<a href="#">Rutherford Scholarships Eligibility Rate</a>	61.6	61.1	61.1	62.3	60.8	60.8	High	Maintained	High
Preparation for Lifelong Learning, World of Work, Citizenship	<a href="#">Transition Rate (3 yrs)</a>	60.0	60.9	60.9	57.9	59.4	59.3	High	Declined	Acceptable
	<a href="#">Work Preparation</a>	78.9	79.3	78.6	82.7	82.6	81.9	High	Maintained	Good
Parental Involvement	<a href="#">Citizenship</a>	82.7	83.8	83.1	83.7	83.9	83.6	Very High	Declined	Good
Continuous Improvement	<a href="#">Parental Involvement</a>	78.3	78.4	77.8	81.2	80.9	80.7	Intermediate	Maintained	Acceptable
	<a href="#">School Improvement</a>	86.1	80.4	78.1	81.4	81.2	80.2	High	Improved Significantly	Good

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The official achievement is reported in the Accountability Pillar Report.

Our Achievement Measure is:

- Intermediate for the Provincial Achievement Tests at the Acceptable Standard;
- High for the Provincial Achievement Tests at the Standard of Excellence;
- High for the Diploma Examinations at the Acceptable Standard; and
- Very High for the Diploma Examinations at the Standard of Excellence.

Our three year average is above the provincial three year average for the PATs

In addition, the Accountability Pillar measures of success include the Drop Out Rate, 3-year High School Completion Rate, and School Improvement. We are very proud of these results, in particular:

- Our Drop Out Rate shows an Achievement measure of Very High and an Improvement measure of Improved Significantly;
- Our 3-yr High School Completion Rate shows an Achievement measure

- of High and an Improvement measure of Improved; and
- Our School Improvement shows an Achievement measure of High and an Improvement measure of Improved Significantly.

Our results confirm that students in the CBE are learning what is expected by the province and achieving success.



## Student Results

### 2016-17 Diploma Examinations and Provincial Achievement Tests

Full results will be available on our website.

learning | **as unique** | as every student



This concludes our formal presentation. I would like to reiterate that we are proud of our students and thank our staff, parents, guardians and the community for their support of our students' success.

Thank you